

McDaniel

AMRL-TR-75-111

TR-01-041



PATHS OF MOVEMENT FOR SELECTED BODY SEGMENTS DURING TYPICAL PILOT TASKS

DEPARTMENT OF INDUSTRIAL ENGINEERING
TEXAS TECH UNIVERSITY
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and
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20081008078

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Prepared for:
AEROSPACE MEDICAL RESEARCH LABORATORY
AEROSPACE MEDICAL DIVISION
Air Force Systems Command
Wright-Patterson Air Force Base, Ohio 45433

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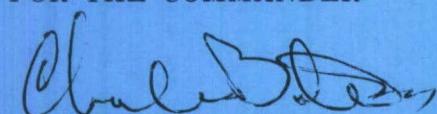
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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER AMRL-TR-75-111	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) PATHS OF MOVEMENT FOR SELECTED BODY SEGMENTS DURING TYPICAL PILOT TASKS		5. TYPE OF REPORT & PERIOD COVERED Final Report
7. AUTHOR(s) M.M. Ayoub; S. Deivanayagam; K.W. Kennedy		6. PERFORMING ORG. REPORT NUMBER F33615-73-C-4073
9. PERFORMING ORGANIZATION NAME AND ADDRESS Dept. of Industrial Engineering Texas Tech University, Lubbock, TX 79409		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS Aerospace Medical Research Laboratory, Aerospace Medical Division, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio 45433		12. REPORT DATE March 1976
14. MONITORING AGENCY NAME & ADDRESS(if different from Controlling Office)		13. NUMBER OF PAGES 390
		15. SECURITY CLASS. (of this report) Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release, distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Anthropometry Photogrammetry Aircraft controls Reclining seat Paths of movement Biomechanics		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report describes the geometry of paths of motion for body segments when the hand travels between selected control locations within an aircraft cockpit. The controls selected for this study were the stick, the throttle, the overhead, the panel, the side-arm and the hatch. The control locations (start and end points of the hand travel) were selected to represent both conventional and high acceleration type aircraft cockpits. In addition		

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three different seat back rest angles (13° , 30° and 65°) were employed to represent the conventional and high acceleration seat configurations. To adequately describe the movements of all body segments, the following landmarks on the body were studied using photogrammetric techniques: Nasion, Cervicale, Suprasternale, Acromion, Shoulder joint center, Elbow joint center, Wrist center, Grip center and Greater Trochanter.

This study was performed as part of the COMBIMAN {COMputerized BIomechanical MAN} model program of Aerospace Medical Research Laboratory. COMBIMAN when completed will be a computer controlled "manikin" representing a pilot under cockpit environment. This model as a "Biomechanical Analog" of the pilot, requires as input, certain kinematic data pertaining to the movement of body segments within a cockpit doing typical pilot tasks. This effort was undertaken to provide this movement data for the primary aircraft controls from which kinematic information can be developed.

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PREFACE

This study was initiated by the Human Engineering Division of Aerospace Medical Research Laboratory (AMRL), Wright-Patterson Air Force Base, Ohio. The research was performed by the Department of Industrial Engineering, Texas Tech University, Lubbock, Texas, under contract #F33615-73-C-4307. Dr. M. M. Ayoub was the principal investigator. Dr. S. Deivanayagam and Mr. Kenneth W. Kennedy were research associates.

The authors are indebted to a large number of people who made this study and report possible. They wish to express their thanks to the personnel at AMRL who designed and fabricated the facilities at Wright-Patterson Air Force Base. Special thanks to Dr. K. H. E. Kroemer who was the contract Technical Monitor at the initial stages and to Mr. C. E. Clauser who took over these duties during later stages of the project. Thanks also goes to Mrs. Sue M. Evans and Mrs. Kathryn J. Dillhoff and other personnel at the University of Dayton Research Institute who performed the required computer programming and data reduction segments of this research. Mrs. Joanda E. D'Antuno, also of the University of Dayton Research Institute deserves special mention for the Herculean task of editing the digitizer output tapes. The authors wish to express their thanks to Mrs. Terry Wilson, Mrs. Pat Austin and Mrs. Ann Sietz for their efforts in typing this manuscript.

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INTRODUCTION

A large body of literature has been generated during the past few decades in the field of human-motion recording and analysis. However, in most of these studies body landmarks are limited to only a few while a body-member movement was executed under certain given conditions. Very few studies, if any, deal with real world activities involving the whole body or its segments. The highly controlled conditions under which movements are performed and studied undoubtedly produce deviations from what one would find during "real-world" conditions. It is true that these experimental conditions are imposed in order to make meaningful comparisons within the particular investigative effort as well as with other efforts. Nevertheless, these artificial conditions severely limit the general applicability of the results and knowledge derived therefrom. For example kinesiologists have studied human motion with the aim of developing the best techniques for performance in sports. Psychologists have studied motion characteristics to learn about the effects of such factors as training and stress on human task performance. Such studies, no doubt, satisfy the primary needs of the investigators; however, they are of limited help to the designers of work stations.

An engineering designer's interest in human motion is not limited to the motion characteristics of a single point on the human body. He is interested in the dynamic histories of various segments of the body involved in executing the movements during the entire period of motion. For example, when an operator

reaches from one control to another, the movement of the hand is brought about by a complex combination of rotary movements at the wrist, elbow and shoulder, and motions of smaller, but significant amounts at other joint centers of the body. It is essential for the designer to have information about all body segments in order to comprehend the interactions and constraints involved within and without the work station. The research reported here is an attempt in providing such data for selected, typical movements required of the aircraft pilot.

Scope

The ultimate objective of this research is to provide engineering anthropometric data for guiding the selection of cockpit control placements, specifically for the location, arrangement and optimum operation of controls under normal and stressful situations. The specific objective is to record, analyze, and describe the paths of movement of the hand, arm, shoulder, eye and other relevant landmarks of the body, while the operator reaches from one control point to another. The control points selected are typical of those located in aircraft cockpits and other manned aerospace work stations.

The data generated from this effort are expected to help in designing future cockpits and in evaluating the existing ones. An important purpose of this research is to provide kinematic data to the COMBIMAN program. COMBIMAN is a COMputerized BIomechanical MAN model of a human operator in a cockpit.

"COMBIMAN is being developed as an engineering tool to represent geometric, physical and ergonomic properties of man at his work station, and to assess interactions between man, equipment, and environment during task performance." (Kroemer, 1973, p. 75)

In order that the above objectives be achieved, the model has to provide good representation of a human operator at his work station taking into account the relevant anthropometry, biomechanics and ergonomics. In order to develop the "Biomechanical Analog" in this model, certain kinematic data are needed. Such data include paths of movement of the pilot's body segments while performing typical cockpit activities. Presently no such data for an aircraft pilot under cockpit environment is available that can be readily used in the COMBIMAN model. Hence, this study was undertaken to provide this kind of kinematic data needed to meet the COMBIMAN model requirements.

Past Human Motion Investigations

The 15th century artist-scientist, Leonardo da Vinci, is generally credited with the first attempt to make a systematic study of human motion. That was well before Sir Isaac Newton (1642-1727) postulated his laws of motion and principles of mechanics. A number of investigators since the days of da Vinci have performed theoretical analysis of human movement and have contributed significantly to the present state of knowledge in this area.

Fisher in 1906 described a theoretical "n" link system of the living human body with freely movable joint systems. Each joint was described in a kinetic sense and the states of motion and equilibrium were analyzed based on principles of mechanics. Amar (1920) performed further analysis of bodily movements especially oriented to work stations. In addition to describing the structural mechanics and functional kinetics, he also discussed the effect of physiological fatigue on work performance. Other authors involved in analyses of human motion include Dempster (1955), Nubar and Contini (1961), Rashevsky (1962), Karras and Stapleton (1968), Vukobrotovic and Juricic (1969).

Experimental Techniques in Human Motion Study

Experimental investigations of human movement employ a number of different techniques. Such techniques can generally be classified into the following three methodological groups, according to Ayoub (1972):

1. Photographic techniques
2. Electronic and/or electro-mechanical methods
3. Stereogrammetry

Figure 1 shows the classification of the techniques adopted in human motion analysis.

Photographic techniques generally involve taking pictures while the movement is being executed and afterwards analyzing the photographs for points of interest. There are three general methods that are available for photographic analysis of human motion:

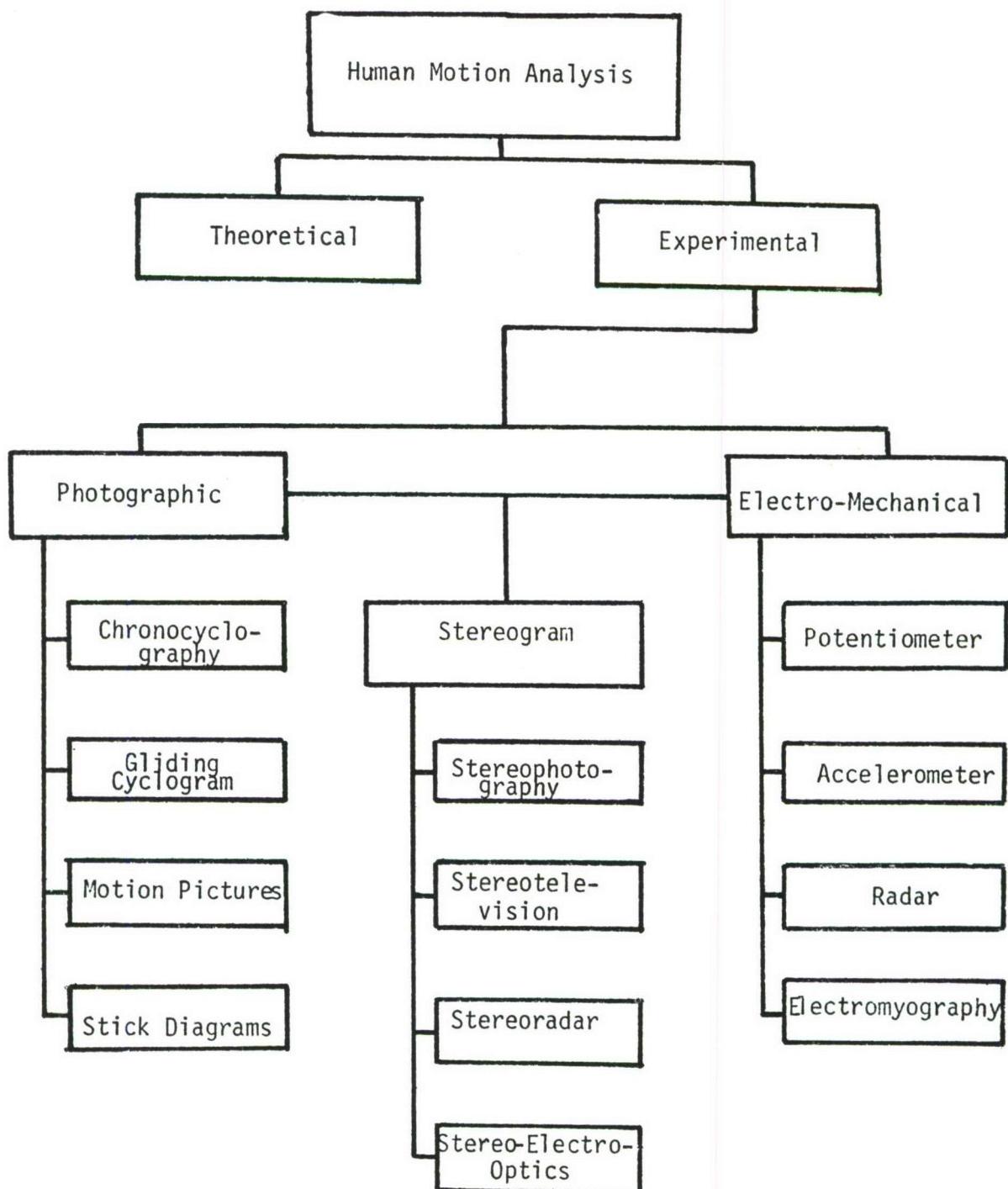


Fig. 1. Techniques of human motion analysis.
From Ayoub (1972)

- (a) Cyclography, chronocyclography, and interrupted light photography (Marey, 1895, 1902; Gilbreth, 1917; Popova, et al., 1934; Polnauer, 1952)
- (b) Gliding cyclograms (Drillis, 1960)
- (c) Motion pictures (Eberhart and Inman, 1947; Taylor and Blaschke, 1951; Plagenhoef, 1966)

Motion analysis by electro-mechanical and electronic devices employ transducers to convert the displacements into electrical signals and record them in some form. The signals recorded have some definite relation to the characteristics of the movement performed. These techniques can be classified into three basic systems:

- (a) Potentiometric systems (Karpovich, et al., 1960; Raheja, 1966; Ramsey, 1968)
- (b) Radar-like systems (Goldman, 1955; Covert, 1965)
- (c) Accelerometer systems (Liberson, 1936; Ayoub, 1966)

Human motion analysis has been performed employing stereogrammetrical techniques which include three basic systems: stereophotography, stereotelevision, and stereoradar. All the three systems use the technique of observing the movements from different angles. Stereophotography has been employed by a number of researchers in the study of human motion (Zeller, 1953; Brewer, 1962; Nakumara and Tamura, 1966; Preston, 1967; Gutewort, 1968; Ayoub, 1969).

Factors Affecting Paths of Movement of Human Body Segments

Movement of human body members is the result of a complex interrelated activity involving the nervous system, musculo-skeletal system, and the metabolic processes. In addition to the internal, structural, and functional factors involved, there are a large number of other highly relevant factors, both internal and external to the human body which have an effect on the motion characteristics of any limb. Listed below are the more important factors that should be considered when the primary interest is to describe the geometry of paths of movement of body segments; i.e., when the hand travels between specific locations:

- (i) Degree of skill and training of the operator
- (ii) Encumbrances and obstacles affecting free motion
- (iii) Stresses under which the motion is performed
- (iv) Limb orientations at start and end of movement
- (v) Direction of motion
- (vi) Eye-hand coordination necessary for the task
- (vii) Stochastic nature of human motion
- (viii) Mechanics of the external environment

Degree of skill and training of the operator. The skill and familiarity of the operator with the kind of movement being performed has a definite effect on the path of movement. An operator, skilled in the task, generally has a smoother pattern of movement and less variability in repeated trials compared to unskilled operators.

Encumbrances to free motion. The encumbrances and restraints placed on the operator in general and on the moving body segments in particular, affect the path of movement to a large extent. Even under otherwise very similar conditions, the movement pattern of a pilot fully encumbered in a flight suit would be very different from that when performing the same movement without encumbrances. Similarly, the path of movement may be significantly altered due to any obstacles encountered.

Stresses under which the movement is performed. The degree of stress under which the task is performed has a bearing on the resultant path the moving segments follow. The stress can be physical, psychological and/or environmental in its origin and nature.

Limb orientations at start and end of movement. Based on recent studies of motion recording and analysis at Texas Tech University, it is evident that limb configuration at the start and end points of a movement have a significant effect on the path of the hand. (Ayoub, 1966; Ayoub, et al., 1970; Petruno, 1973; Ayoub, et al., 1974). The distance through which the hand travels also affects the paths of movement. Generally, the shorter the distance traveled by the hand, the flatter is the path of motion taken by the hand (Ayoub, 1966). The configuration of the musculoskeletal system at the starting point of the movement influences the path of the segment involved. This is due to the initial and final characteristics of the

lever system (the bones and joints) and the forces involved and their directions of application (the muscle tensions).

Direction of motion. Direction of motion has been shown to influence not only the path of motion of the hand, but also the path of motion of any point on the upper extremity. For example, a movement along the mid-sagittal plane performed in the horizontal plane of the work surface shows a different path of motion for the elbow than does the path of motion made in the horizontal plane of the work surface but at 45° on either side of the mid-sagittal plane. In addition, whether the movement is made away from the body or toward the body, as well as with gravity or against gravity, can significantly change the path of motion.

Eye-hand coordination necessary for the task. The degree of eye-hand coordination necessary to perform the task can affect the path of motion of the hand and the other body segments involved when reaching for a specific control. Further changes in this path of motion can be observed if, in addition to reaching to a specific control requiring eye-hand coordination, other tasks requiring the visual apparatus are performed simultaneously.

Stochastic nature of human motion. Although this is not a variable, it is included here, since the path of motion taken by a body segment may not always be identical under repeated trials while performing the same task under essentially identical conditions.

Mechanics of the external environment. The external environmental conditions such as acceleration, vibration, etc. have an effect on the movement characteristics of body segments. The intensity and duration of exposure to such conditions are critical factors to be considered in analyzing human body member movements under such environmental conditions. Johnson and Ayoub (1972) reported some effects of vibration on voluntary movement.

THE PHOTOGRAMMETRIC SYSTEM

The summary of the system adopted and the steps involved in the present investigation are outlined in the flow chart shown in Figure 2. The various steps are discussed in detail in the following sections.

An effective system to collect data on human movement for this investigation must be able to meet the following technical requirements:

- (i) To monitor a large number of body landmarks simultaneously
- (ii) To provide a permanent record of the movement so that the analysis can be performed at a later time
- (iii) To be technically simple, but versatile and easily adaptable to provide any workplace set up

The technique employed in this investigation is a combination of slow speed motion pictures and interrupted photography. It consists of recording two orthogonal views of the task, side by side, on a single frame of the film. The graphic information

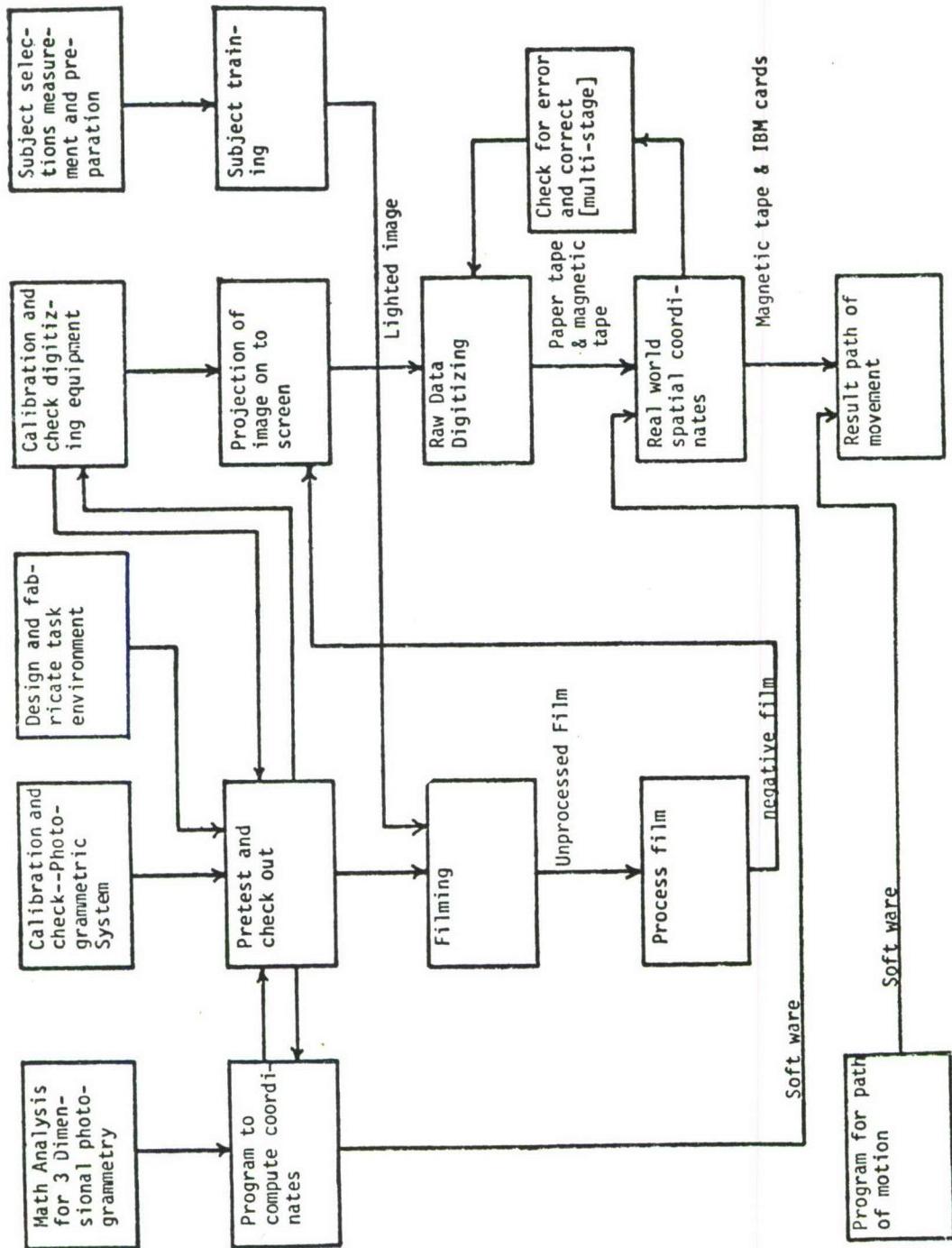


Fig. 2 Flow Chart - Paths of Movement Research Effort

available in a photographic picture is a scaled down version of the real world situation. However, there are two important differences that make it difficult to employ a simple photograph for an accurate three-dimensional measurement. A simple photograph, by nature, being two-dimensional, does not lend itself easily to three-dimensional information presentation. Also, the scaling factor between the real world and image is not a constant; but is a function of the lens to object distance.

The second deficiency, parallax, is explained schematically in Figure 3. Equidistant from the focal axis of the camera are two points A and B. However point A, at a distance d_A , is farther away from the lens than point B, which is at a distance d_B from the lens. Their corresponding images are a and b at distances x_a and x_b respectively from the center of the image plane. It can be seen that x_b is greater than x_a even though in real world both A and B are at equal distance X, from the focal axis. This apparent displacement at the focal plane is due to parallax, which in general causes reduction in image size of objects farther away from the lens.

It is possible to overcome the above problem by taking pictures of the same object as viewed at two different angles. The information available from the resulting two photographs can be pooled together to obtain three-dimensional coordinates of any point in the space covered by both pictures. The

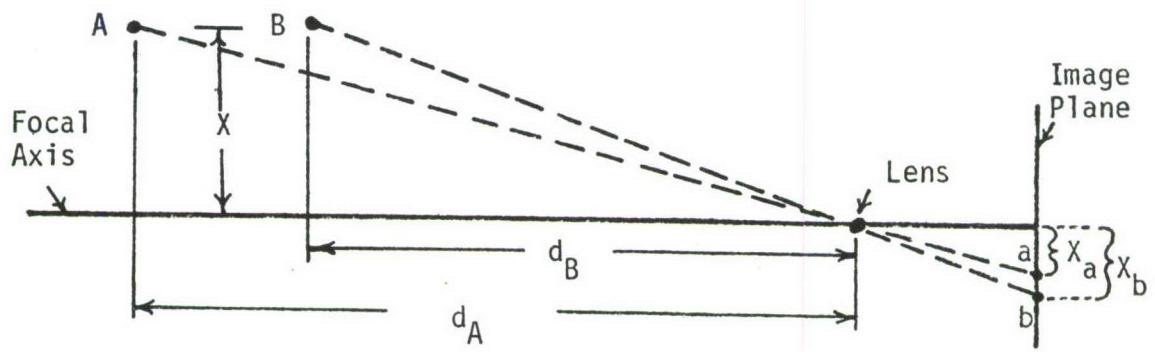


Fig. 3. Showing the Effect of Parallax

computational procedures are simplified when the viewing angles are at 90° to each other. The technique in this case is called Orthogonal Photogrammetry.

Coordinate Relationships in Orthogonal Photogrammetry.

Consider a situation as presented in Figure 4. A point P is viewed (or photographed) along x and y axes as shown. The imaginary point of intersection of the focal axes (x and y) is O and is assumed to be the origin of the system. With respect to O, point P has coordinates x_p and y_p . The lenses are at distances X_o and Y_o from O along x and y axes respectively. The images of O and P are O_x and P_x on one image plane and O_y and P_y on the other. P_x is at a distance of y'_p from O_x and P_y is at a distance x'_p from O_y . Also assume that the lenses have identical focal lengths, f. [This assumption is not a requirement for the analysis. It is made only to be consistent with the technique described later, where a single camera (lens) replaces the two cameras.] It can be shown from properties of similar triangles that,

$$\frac{x'_p}{x_p} = \frac{f}{y_o - y_p} \quad \text{and} \quad \frac{y'_p}{y_p} = \frac{f}{x_o - x_p}$$

solving the above two equations for x_p and y_p , we get:

$$x_p = \frac{x'_p (fy_o - x_o y'_p)}{f^2 - x'_p y'_p}$$

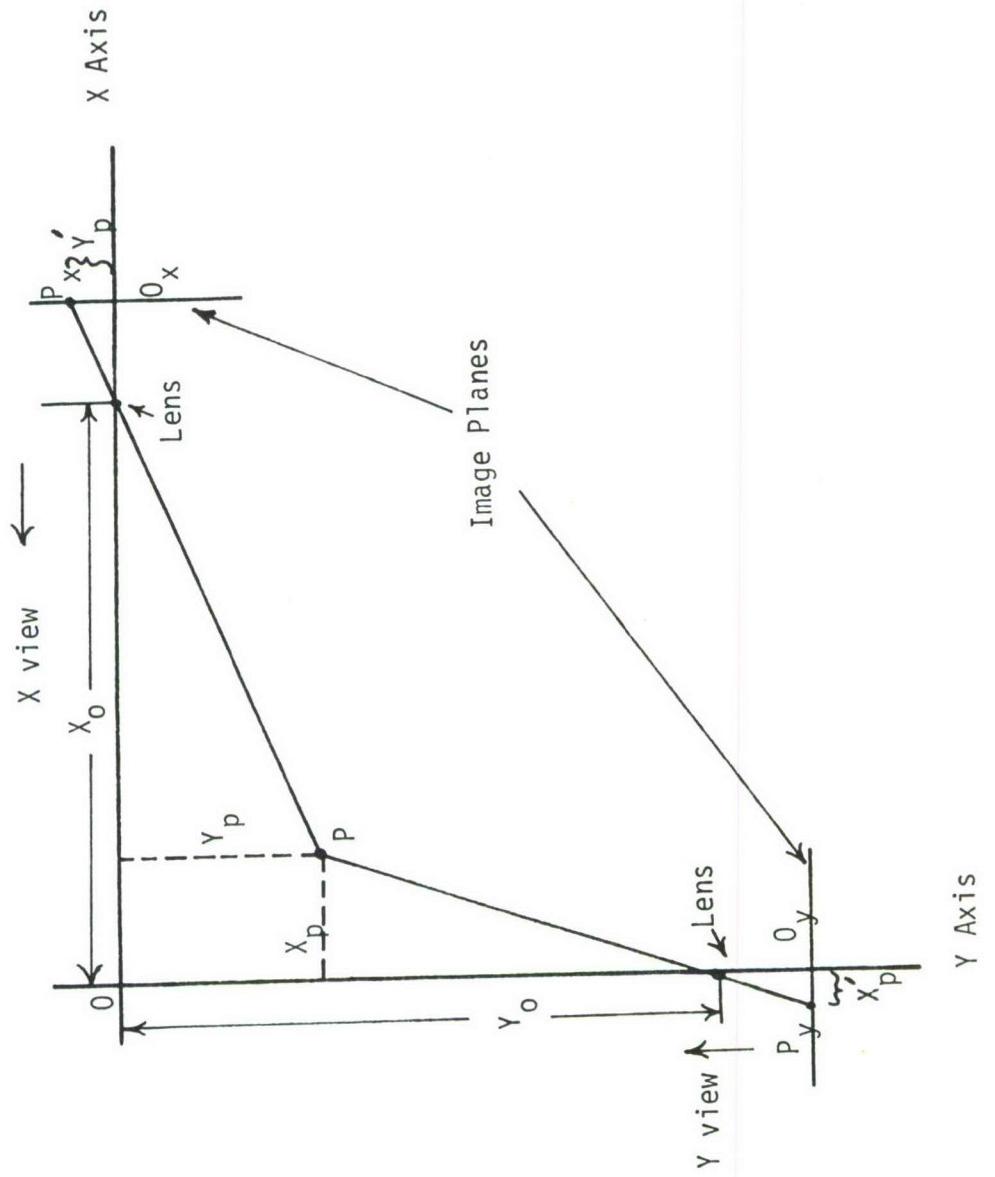


Fig. 4. Orthogonal Photogrammetry - Schematic Layout

and

$$y_p' = \frac{y_p' (fx_o - y_o x_p')}{f^2 - x_p' y_p'}$$

In the above, f , x_o , y_o are system parameters and are constants for a given set of cameras and their locations.

Photogrammetric Facility at the Aerospace Medical Research Laboratory (AMRL)

The photogrammetric facility at AMRL which was employed for this research is based on the principle of using two orthogonal views to compute three-dimensional coordinates of an object. However, it is unique in the sense that the two orthogonal views are not obtained using two cameras positioned with their optical axes perpendicular to each other. Instead only one camera is used and the orthogonal views were obtained on the same picture frame, side by side. This is made possible by using two pairs of front surface distortion-free mirrors suitably placed with respect to the camera and the task area. The system was designed by Mr. Kenneth W. Kennedy of AMRL, fabricated and erected under his supervision by the Aeronautical Systems Division personnel at Wright Patterson Air Force Base.

Figure 5 presents a pictorial layout of this system. The entire system is housed in a room 23' - 6" x 18' - 3". The task area is centrally located at one end of the room and is an approximately 7' - 6" square. On both sides and forward of this task area are two large mirrors, 7' - 3" square in size.

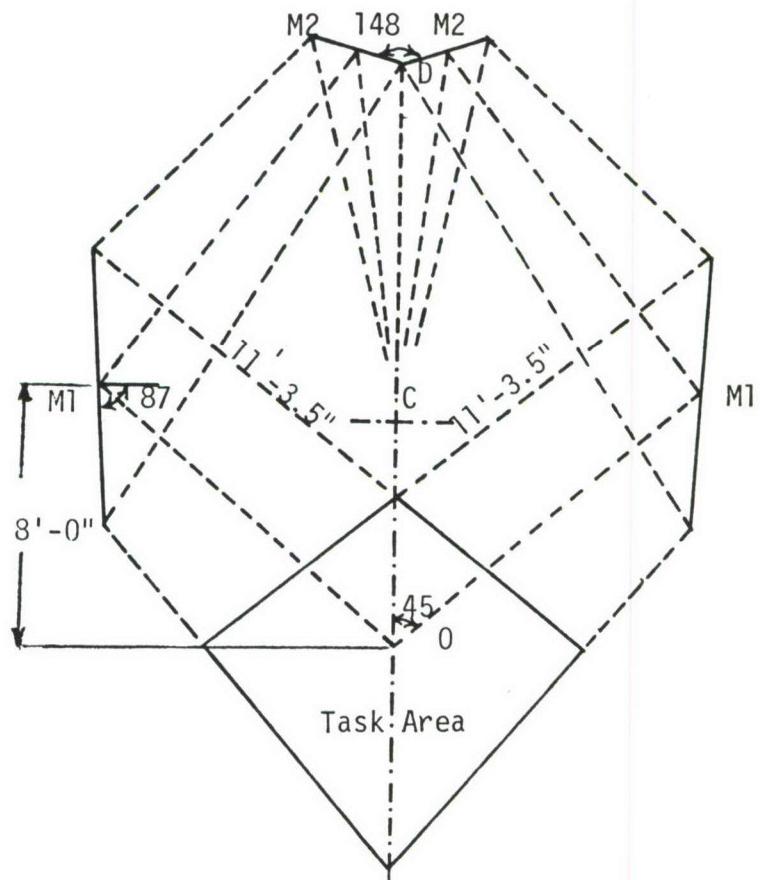


Fig. 5. Schematic Layout of Photogrammetric System

M1 - 7'3.5" sq. Mirror

M2 - 2' 6" sq. Mirror

C - Camera. O - Center of Task Area

CD - 9' 7.25" OC - 6' 7.25"

(Modified from the original drawing by K. W. Kennedy,
AMRL, Wright-Patterson AFB, Dayton, OH)

These mirrors are vertically mounted on stable framework to avoid distortion and displacement. A pair of small mirrors, 2' - 6" square each, is placed in front of the task area and beyond the large mirrors. The camera is placed between the front mirrors and the task area, facing the small mirrors. The mirrors are not parallel to each other but are converging toward the task area. The large mirrors converge toward the center line of the system at an angle of 3° each and the small mirrors intersect at an included angle of 148°. Also the mirrors are placed symmetrically about the optical axis of the camera lens.

Equipment

Camera. The Hulcher 70, Model 102 camera was used in recording the movements. This camera uses 70 mm roll film available in lengths of 100 ft/roll. The camera can be operated either as a still camera or as a fast sequence (motion picture) camera at varying speeds of 5 to 20 frames per second. It provides negatives of 2 1/4" x 2 1/2" on 70 mm films. Thus it has the advantages of a large negative area and relatively fast film rates.

Strobe lights. The strobe light system known as "sequistrobe" consists of 4 lights coupled to 2 power units. Both units were synchronized with the camera shutter. The duration of the strobe flash is approximately 7 1/2 microseconds.

Digitizer unit. A Viable Systems x-y digitizer unit was employed to extract coordinates from the film projections. It consists of a 70 mm projector, a rear projection screen with a mirror, x-y digitizer with a movable cursor and a paper tape punching unit. The system was assembled using commercially available components.

Cockpit chair. The experimental cockpit chair to support the subject was designed by Systems Research Laboratory, Dayton, Ohio and fabricated at the AMRL workshop. This chair had the following ranges of adjustability:

- *Seat height - from 2" to 10" height above the heel rest
- *Seat pan angle - from 6° to 25° to horizontal
- *Back rest angle - from 0° to 70° to vertical
- *Head rest angle - from 0° to 40° to plane of back rest

For purposes of this research, the imaginary point of intersection of the midlines of seat and back rest (the seat reference point, or SRP) is defined as the reference or origin point.

Foot rests were provided in front of the chair to simulate rudder controls at neutral position [36.25" in front of and 3.5" below SRP].

Task area. The simulated cockpit chair was placed in the task area shown in Figure 5. A rectangular hardwood platform was erected over the task area to provide a level surface. A semi-circular platform rotatable about the center of the

area provided the base on which the chair, foot rest and other control supports were mounted. This rotatable platform also provided a means to change the orientation of the subject with respect to the photogrammetric system. The camera was positioned in relation to the mirrors covered this entire area (approximately 53 square feet) to a height of 8 feet above the task platform.

Controls and control switch system. The primary controls were simulated using cylindrical handles mounted in such a way as to permit placement and orientation of each control in space according to aircraft design practices. In addition, an event switch system was designed and mounted on all of the controls. Figure 6 shows a typical control assembly system. The control point could be moved forward or backward and up or down easily and could be fixed at any position. Six such units were fabricated. Thus these units can be fixed at any desired location in space, within reach of the subject, above the platform and around the seat. These units represented the following six controls.

- | | | |
|----------|-------------|-------------|
| 1. Stick | 2. Throttle | 3. Panel |
| 4. Hatch | 5. Side Arm | 6. Overhead |

Chronometer. A chronometer positioned in the task area was used to verify the camera speed and also provide information on movement time.

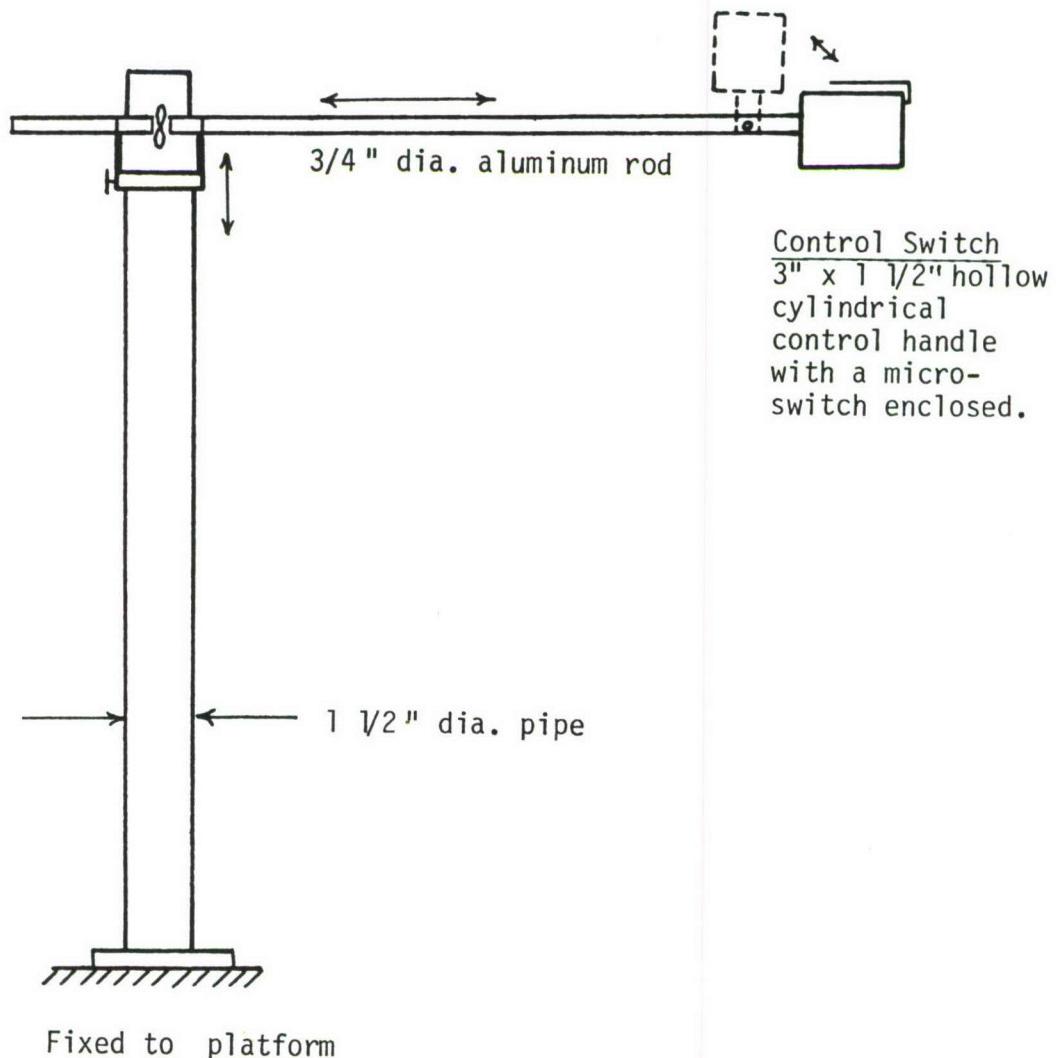


Fig. 6. A typical control assembly

TESTING AND CALIBRATION

Testing the Projection System

The projection system made available at the anthropology unit laboratory of AMRL was tested for its accuracy. The procedure outlined below was adopted for this purpose. A 16"x16" grid pattern of 2" squares was drawn accurately on white paper. The grid was photographed and a glass slide suitable for use with the projector was made. During this process the 16"x16" dimension was reduced to 1 9/16" and the 2" small squares were reduced correspondingly. A suitable slide carrier for the projector was also made. This slide was then projected through the system. Digitizer readings of each intersection of the projected image were recorded. The intersection at the center was taken as origin or (0,0). (See Figure 7 for the digitizer readings.) The X coordinates are noted below and the Y coordinates are noted above the respective intersections. Ideally, the Y coordinates of all points lying on any single horizontal line should be the same and similarly the X coordinates along a vertical line. However, it can be observed that this is not the case. There seems to be some distortion of the image caused by the projection system. Figure 7 also shows the maximum difference observed along any particular line. These differences suggest a systematic error coupled with some random error. The random error could be due solely to "human error," while the systematic error could be due to some distortion in

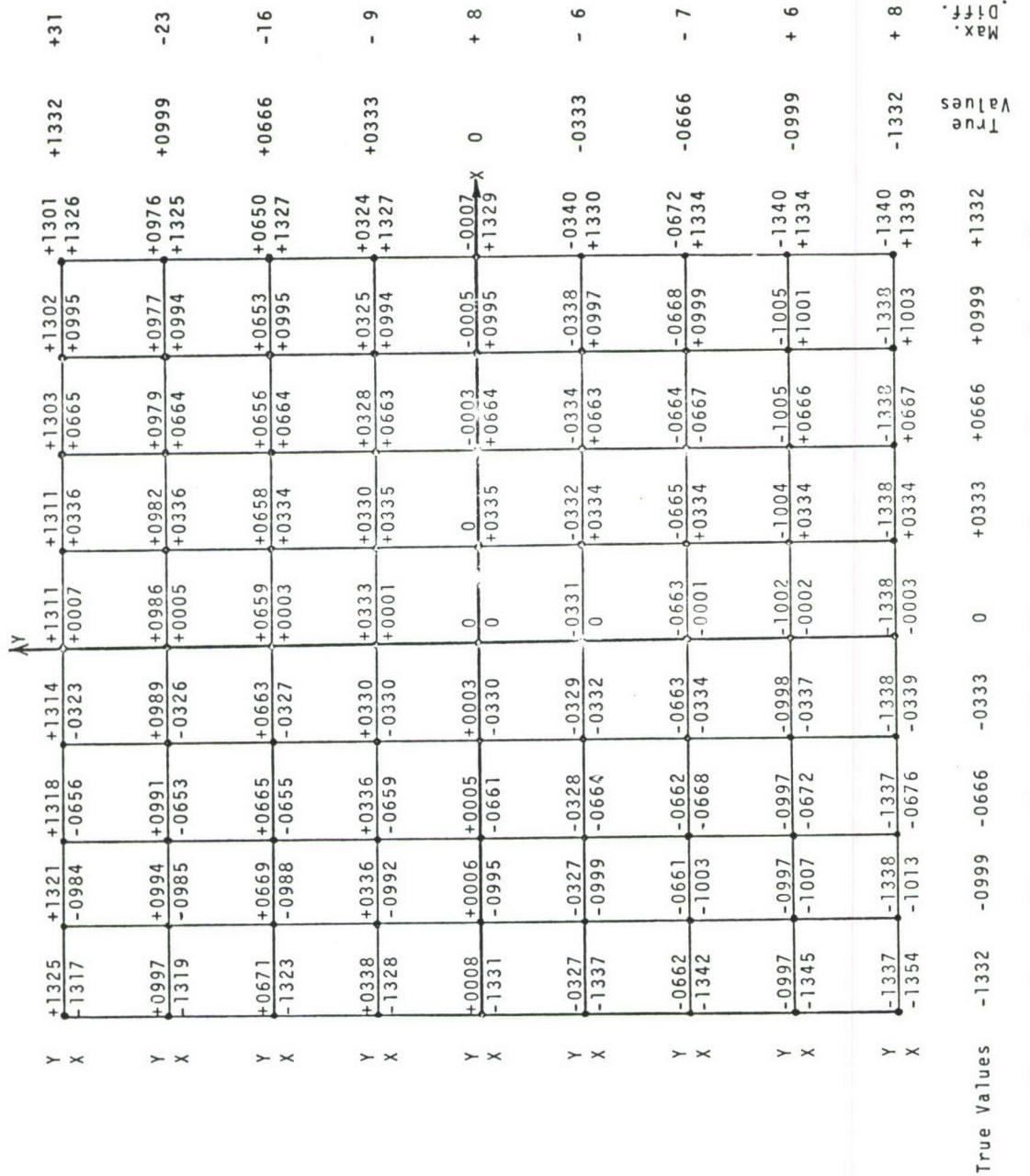


Figure 7. Digitizer readings of a square pattern, showing errors along X and Y axes during projection. Each square is 2" x 2" and is equivalent to 333 x 333 units of digitizer counts. The largest maximum difference between individual readings and its true value occurring at upper right hand corner (Y coordinate reading) is 31 digitizer units. This is equivalent to about 2.23% error.

the projection. It was also observed that this systematic error varied with orientation of the focusing lens of the projection. For example, the readings in Figure 7 were obtained with a projected image having the bottom-most line horizontal (note that the difference is only 3 units over its entire length) and the intersection at the center in best focus. It was found that if any one of the vertical lines were to be adjusted for true vertical, an entirely different set of readings was obtained. This suggests some distortion caused by the focusing lens. The maximum error caused by this distortion was 2.23% (appearing in X coordinate of the upper right hand corner, see Figure 7) which was felt to be acceptable for this application. To avoid increase in the errors of the projection system, it was decided that during the analysis of any particular sequence of film, the focusing would not be altered.

Testing the Stereophotogrammetric System

Testing the camera. For purposes of testing the camera for any abnormal distortion, a large grid pattern was used. This was constructed of two plexiglass plates of 5'x5' and 1/4" thick each and glued together. A 2"x2" grid pattern made of 1/32" wide black vinyl tape was placed between the two plexiglass plates. The glass plates were supported by steel frames and a suitable base. This grid pattern was placed about 8' in front of the camera and a set of pictures was

taken. Extreme care was taken to place the grid pattern exactly perpendicular to the focal axis of the camera. An engineer's transit (theodolite) and plumbobs were used to achieve this. Negatives of the pictures taken were carefully examined visually and no distortion could be detected. However when projected through the system some distortion could be noticed. It was believed that this distortion was caused by the projection system and was not in the picture itself. Errors detected here were within the 3% maximum attributable to the projection system. At this point it was concluded that the performance of the camera was satisfactory and no further testing was necessary.

Testing the photogrammetric system. It was also necessary to test the entire photogrammetric system. The following procedure was adopted for this purpose. The semicircular rotatable platform was removed and the grid (mentioned earlier) was placed on the stage as shown in Figure 8. A 9" offset from the center of the stage was chosen because the supporting base for the semicircular platform was mounted at the center of the platform. Again a set of plumbobs was used to align the grid properly with the camera. A check for the placement of the grid was performed by placing a transit in the position of the camera and measuring the angles of eight selected points on the grid as viewed through the mirrors. Four of these points were displaced from the center of the grid at distances of 10"

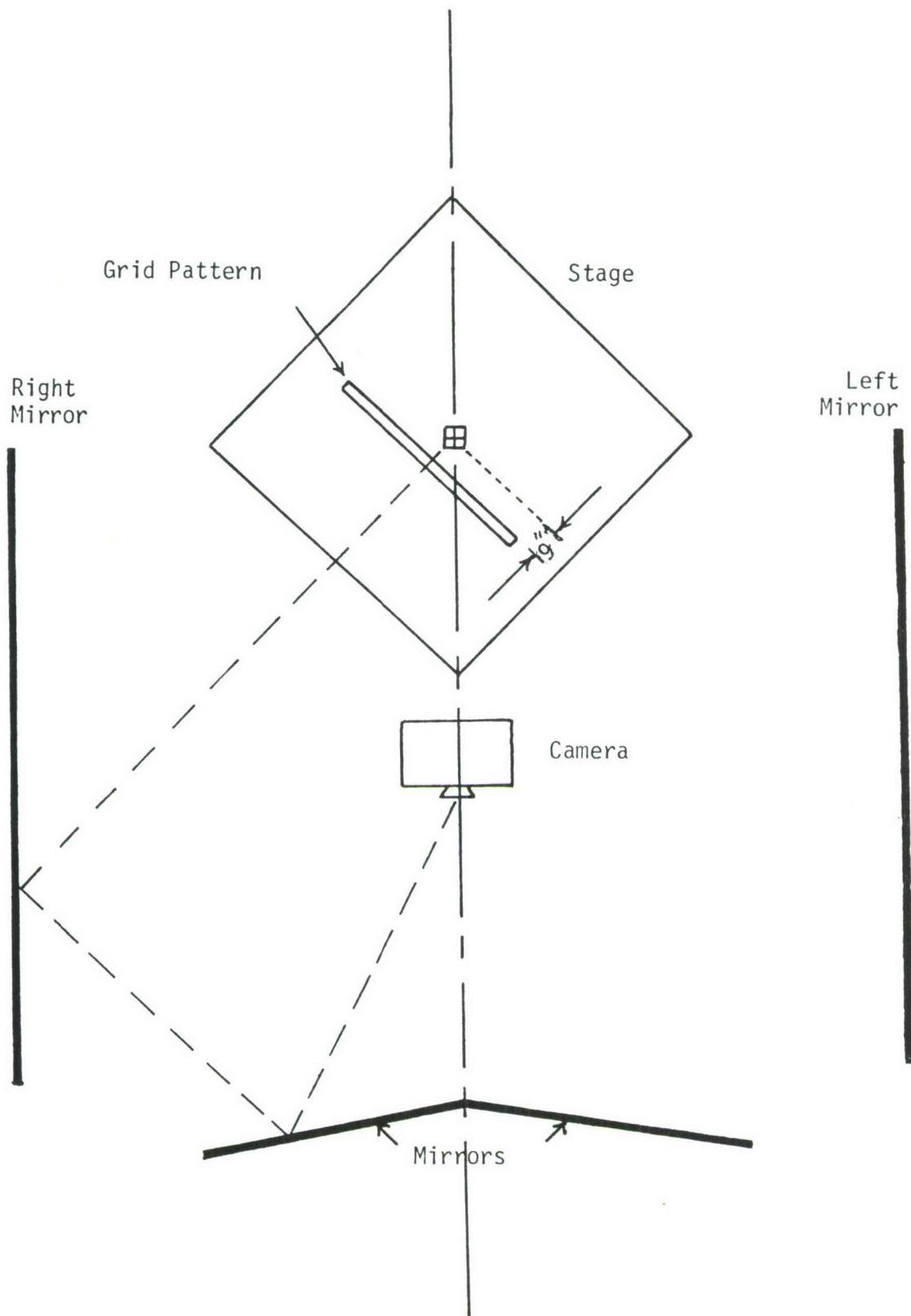


Fig. 8. Set up for Testing the Stereophotogrammetric System

horizontally and vertically and four others at distances of 20" horizontally and vertically. Based on the alignment angles read off the transit, the coordinates of these eight points were computed with the center of the grid as origin. The resulting average error of the system was found to be less than 1.5%, which was considered acceptable for this investigation.

The next step was to take pictures of the grid facing: (i) right side mirror, and (ii) left side mirror. The processed pictures were then projected and digitized using the projection system already tested. In each view, 40 different measurements were made. The lengths varied from 14.14" to 56.56". The average error was found to be less than 0.5" or 2.5%. This level of error is considered acceptable. Again, it must be remembered that the projection system itself is liable to a maximum error of about 2.23%.

On the basis of the above testing procedures, the following relationships were obtained.

(i) The projection system magnification factor is 6.8192.

In other words, a length of 0.1466" on the film is magnified to 1" on the screen.

(ii) A length of 10" on the stage is equivalent to about 245 units of the digitizer. This approximate ratio was not used for any computational purposes. Instead, exact computations based on the focal length of the camera lens were used to obtain a ratio between the real world

distances and the distances on film. The projector magnification factor mentioned in (i) above was used further to convert the film distances to digitizer units. (It is known that each digitizer unit is equal to 0.004" on the projector screen).

Subject Placement and Choice of System Coordinates

In principle, orthogonal photogrammetry requires that in order to compute the spatial coordinates of any point its image should be visible in both orthogonal views. In this case it was found impossible to achieve this for all the bodily points that were of interest. In other words, the subject could never be so positioned with respect to the mirrors that all points can be seen in both views of the photograph simultaneously. This is due to interference of the subject's own body and other hardware such as chair and control assemblies with camera view. Hence it was decided that only those points on either the right or the left side of the subject's body be monitored at a time during a movement. Thus, for recording any movement on film the subject was first positioned and oriented such that at least one side of his body was seen entirely in both views of the photograph. After filming once, the platform was rotated 180° so that the other side of the subject's body was visible in both views. Then a second recording of the same movement was made. From these two sets of film a complete record of the movement showing all targets of interest was compiled.

No assurance can be given that the movements were identical in all respects when repeated. However, in the case of a well-trained subject, the deviations can be reasonably assumed to fall within a small range. Also when a number of subjects are considered, then the individual paths of movement would form an "envelope" representing the most likely path.

Figures 9a and 9b show schematically the orientations of the subject with respect to the camera. They also show the relationship between the coordinate axes for the mirror-camera system and the coordinate axes for the subject in both orientations. This relationship was used in the computational procedures to yield results compatible with COMBIMAN input. Markings were made on the fixed platform so that the rotatable platform could be positioned at the same two locations, even after repeated rotations.

As can be seen in Figure 9, positioning the subject as described above yields pictures viewed at an angle of 45° to the subject's mid-sagittal plane. This required certain computational procedures to be performed on the data in order to obtain results in a form compatible with other related research efforts.

Following is the subject's own coordinate system:

origin -- seat reference point

x axis -- forward positive, anterior-posterior axis

y axis -- left positive, transverse axis

z axis -- up positive, vertical axis

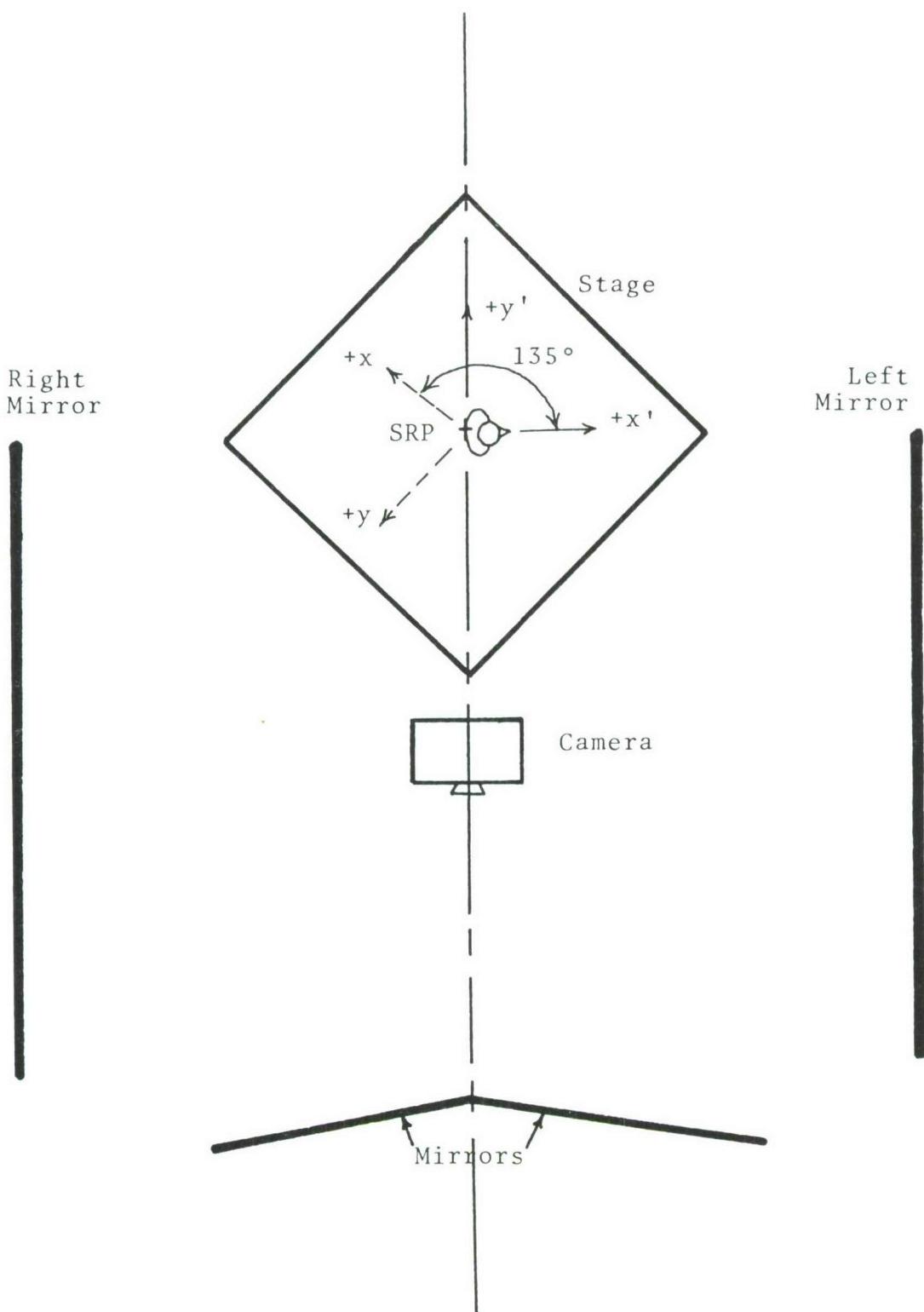


Fig. 9a.

The orientation when subject's right side is toward camera.

x, y Camera-Mirror System Axes

x', y' Subject's Co-Ordinate System Axes

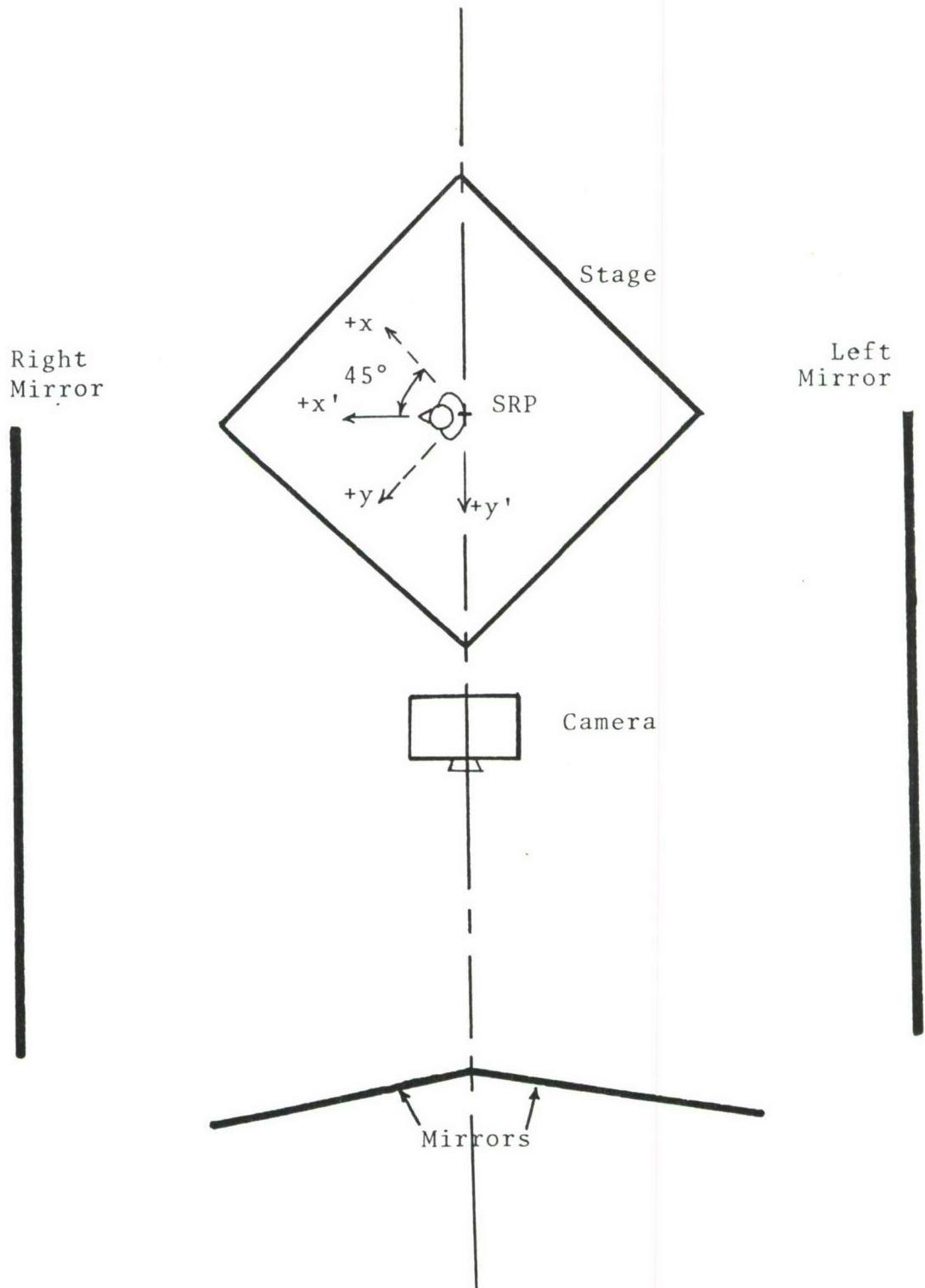


Fig. 9b.

The orientation when subject's left side is toward camera.

x, y	Camera-Mirror System Axes
x', y'	Subject's Co-Ordinate System Axes

The coordinates for mirror-camera systems are:

origin -- seat reference point (SRP)

x axis -- view line through right hand side mirror,
away from mirror is positive

y axis -- view line through left hand side mirror,
towards mirror is positive

z axis -- vertical, up is positive

Figure 9 also shows that the two systems of coordinates have common origin and z axis. It is then possible to rotate the mirror-camera system axes about the origin by:

(i) 135° clockwise in the case where the subject's right hand side is toward the camera, or (ii) 45° counterclockwise in the case where the subject's left hand side is toward the camera and obtain the coordinates in terms of the subject's own system of axes.

Since the SRP is not visible in the pictures, a translation of the origin from SRP was also needed for practical reasons. All measurements were taken with an external point as origin. This point had coordinates (6.01, 6.01, 0) with respect to the mirror-camera system of axes. The measurements were then transformed with respect to SRP as the origin. Both the translatory and rotary transformations were carried out at the computational stage.

EXPERIMENTATION AND RECORDING OF MOVEMENTS

The initial step in planning for the experiment involved identifying the following:

1. Seat geometry
2. Controls to be included in the study
3. Movement sequence to be studied
4. Body surface landmarks of interest

Seat Geometry

The subject was seated on the chair without restraints and with both feet resting on the rudder pedals at neutral positions, i.e., 3.5" below and 36.25" in front of SRP (reference). Seat pan was maintained at 6° to horizontal sloping backwards. This is the standard slope of the seat pan provided in most aircraft cockpits in use. However, for back rest, in addition to the standard 13° inclination, two more configurations were chosen. These were 30° and 65° which are typical back rest angles proposed for future conventional and high acceleration cockpits.

Controls

In consultation with the research personnel involved with the COMBIMAN program, the following controls were selected to be considered in this study.

1. Stick control
2. Throttle control
3. Overhead control
4. Panel control
5. Side arm (right) control
6. Hatch release control

Each of the six controls had a different spatial position (with respect to SRP) at the three different back rest angles. These positions are listed in Table 1. Control positions for 13° back angle are standardized and available. In the cases of 30° and 65° back angles, new positions had to be determined. After some trial and error attempts, new positions were chosen on the basis of the following two criteria.

- (i) The controls shall be within the reach envelope of the entire population under consideration.
- (ii) Neither the control nor its supports shall interfere with the anticipated movements and shall, as far as possible, not interfere with camera viewing of the subject.

Movement Sequence

The basic movement for this investigation would originate with one of the upper extremities. For the purposes of this study, a movement is defined as being completed when a hand leaves its initial or starting position, reaches for a specific control (forward movement), and then returns to the starting position (return or reverse movement).

The following two different starting positions were considered in this investigation:

- (a) Right hand on stick and left hand on throttle
- (b) Right hand on side arm and left hand on throttle

TABLE 1
 Controller Positions with Respect to
 Seat Reference Point in Inches

# Controller	Back Rest Angle		
	13°	30°	65°
1 Stick	12.4 above 20.0 forward in Centerline	15.0 above 20.0 forward In Centerline	Not Applicable
2 Throttle	12.4 above 20.0 forward 10.0 left	12.4 above 18.0 forward 10.0 left	5.0 above 7.0 forward 10.0 left
3 Overhead	47.3 above 0.0 forward 10.0 left	45.0 above 0.0 forward 10.0 left	35.0 above 12.0 rear 10.0 left
4 Panel	23.0 above 24.7 forward 10.0 left	23.0 above 23.0 forward 10.0 left	15.0 above 10.0 forward 10.0 left
5 Side Arm	4.8 above 15.0 forward 13.0 right	4.8 above 13.0 forward 13.0 right	5.0 above 7.0 forward 10.0 right
6 Hatch	23.0 above 12.0 forward 13.0 right	23.0 above 11.0 forward 13.0 right	15.0 above 5.0 rear 13.0 right

When one hand is in motion, the other hand remains at the starting position. One exception to this rule is when the right hand is in motion starting from the control stick. In this case the right hand does not start the movement until the left hand leaves the throttle and takes control of the stick. Also, the movement is completed only when the left hand returns to the throttle after the right hand has taken control of the stick. Thus with this starting position, it is assured that at least one hand is at the stick at all times. Also, starting position "A" is considered irrelevant, at 65° back angle, as the stick was well out of the reach envelope.

Coding System for Movements

In order to identify the movements precisely, a numerical coding system was adopted. A typical code for any movement consists of a four digit number. The left most column would identify the orientation of the subject. The second or next right column would identify the starting position of the hands. The third column would identify the major hand involved in the movement. The fourth column identified the control to which the major hand travels. This coding system is explained in Table 2.

Points of Interest on Human Body

In view of the expected use of the results on this investigation, the following body surface landmarks and/or joints were considered important.

TABLE 2

Movement Coding System

<u>Column #</u>	<u>Code</u>	<u>Description</u>
1	1	Views of Right hand side
	2	Views of Left hand side
2	1	Starting position: R.H. on stick and L.H. on Throttle
	2	Starting position: R.H. on side arm and L.H. on Throttle
3	1	Major movement involves R.H.
	2	Major movement involves L.H.
4	-	Number of control major hand moves to FIRST (From starting position)

Note: A movement is completed only when the hand returns to the starting position identified in Col. 2.

Code Numbers Adopted for Controls

<u>Control #</u>	<u>Control Name</u>
1	Stick
2	Throttle
3	Overhead
4	Panel or Canopy Jettison
5	Side Arm
6	Hatch

1. Nasion. The skin surface point overlying the point on the mid-sagittal plane at the junction of nasal and frontal bones.
2. Cervicale. The skin surface point over the spinous process of the seventh cervical vertebra.
3. Shoulder Joint. In general, the area of attachment and articulation of upper arm with torso. The center of gleno - humeral joint is taken as the center of shoulder joint.
4. Elbow Joint. The joint between upper and forearm. The center of this joint is taken to be the midpoint of a straight line connecting medial epicondyle and radiale.
5. Wrist Joint. The joint between forearm and hand. The center of the joint is taken to be the midpoint of medial lateral axis connecting the styloid processes of ulna and radius.
6. Grip Center. The center of hand grip, which is taken to be the surface (palmar) point lying over III meta-carpal joint.
7. Hip Joint. The area of attachment and articulation of thigh with pelvis. This joint will be represented by the most lateral palpable point on the femoral greater trochanter.
8. Knee Joint. The joint between thigh and lower leg. This joint will be represented by the top most point over the knee of a seated person.
In order to obtain the position of the above landmarks or joint centers during a typical movement, it was decided to

monitor a set of skin surface points on the human body. These skin surface points were identified by attaching suitable targets. Table 3 lists the skin surface points with the corresponding type of target. All skin surface points, except for the knee points, were identified and targets attached while the subject was standing. Knee surface points were located after the subject was seated in order to identify the top most points on right and left knees.

Targets

In order to identify clearly the skin surface points listed in Table 3, two different types of targets were used. The surface target is a simple one, made up of adhesive cloth and vinyl material in black and white and directly attached to the skin.

However, this surface type target could not be used over all the skin landmarks, because during some of the movements, the target was hidden from the camera view. For this reason, it became necessary to employ extension targets at these landmarks.

An extension target consists of a white plastic tube $1/4"$ in diameter and $4\frac{1}{2}"$ long. A black mark $1\frac{1}{2}"$ from one end is made on the tube surface. A piece of foam with double side coated adhesive tape is used to affix the target to the subject. When the target is placed on the body landmark, the free end projects out of the body. With reference to Figure 10, the distance A to B is $1\frac{1}{2}"$ and B to C is $3"$. When a photograph is made A and B will always be visible since they extend well beyond the body surface. If A and B are seen, then

TABLE 3
 List of Skin Surface Landmarks
 and the type of Target Used

Point #	Description	Target Type
1.	Nasion	Short* 1:1
2.	Cervicale	Surface
3.	Suprasternale	Short 1:1
4.	Rt. Acromion	Long** 1:2
5.	Lt. Acromion	Long 1:2
6.	Rt. Elbow, Lateral	Short 1:1
7.	Lt. Elbow, Lateral	Short 1:1
8.	Rt. Elbow, Medial	Surface
9.	Lt. Elbow, Medial	Surface
10.	Rt. Wrist, Dorsal	Surface
11.	Lt. Wrist, Dorsal	Surface
12.	Rt. Wrist, Ventral	Surface
13.	Lt. Wrist, Ventral	Surface
14.	Rt. Grip Center, Dorsal	Surface
15.	Lt. Grip Center, Dorsal	Surface
16.	Rt. Grip Center, Palmar	Surface
17.	Lt. Grip Center, Palmar	Surface
18.	Rt. Trochanter	Long 1:2
19.	Lt. Trochanter	Long 1:2
20.	Rt. Knee	Short 1:1
21.	Lt. Knee	Short 1:1

*Short 1:1 refers to 2" long target.

**Long 1:2 refers to 4 1/2" long target.

Double side coated
adhesive tape

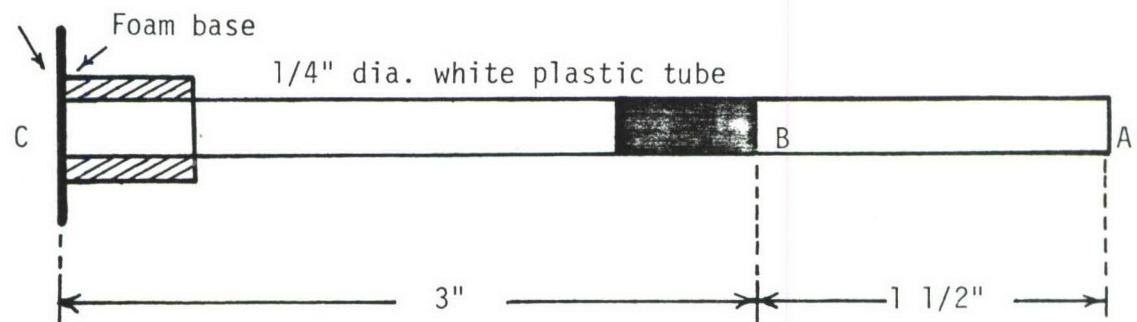


Figure 10. Extension Target (Long 1:2)

C will be along the same vector AB at a distance of 3" from B. This target is identified as a long (1:2 ratio) target. Figure 10 shows a long target and the corresponding dimensions. Table 3 presents the information regarding the locations on the body and the types of targets used. The necessary computational procedures required to determine the surface point location from the information available from extension targets, were incorporated in the computer program.

Subjects

Twenty young, healthy, male volunteer subjects were employed as subjects for this investigation. All were naive subjects and had no aircraft piloting experience. However, the subjects were given enough practice time to acquaint themselves with the location of controls and the movements to be executed. If during the recording of any movement, some fumbling by the subject was noticed by the experimenter, then this particular movement was repeated and re-recorded on film.

All the subjects performed the movements without any of the restraints or encumbrances of normal flight suits. They were nude except for a small brief. Subjects were selected to represent the US Air Force pilot population in height and weight. These and other selected anthropometric dimensions of the subject were measured. The subject anthropometric information is shown in Table 4.

Experimental Procedure

A set of test pictures was made to determine the exact

TABLE 4
ANTHROPOMETRIC MEASUREMENTS OF SUBJECTS

I.D. #	Subject Number					
	1	2	3	4	5	6
Age years	03	04	05	06	07	08
Stature inches	67.01	69.21	69.33	71.81	71.73	68.54
Weight lbs.	130.07	154.21	172.14	184.47	190.53	121.59
Sitting height inches	32.24	33.74	34.96	35.95	35.79	36.50
Sitting knee height inches	20.95	21.45	21.93	22.28	22.17	20.47
Sitting acromial ht. inches	20.55	22.01	22.48	23.31	24.09	23.90
Shoulder-elbow length inches	14.45	15.28	14.88	15.00	14.88	13.78
Buttock-knee length inches	22.91	24.06	23.43	24.96	24.29	21.73
Acromion-radiale length inches	13.66	14.09	13.50	13.94	14.21	13.35
Radiale-styliion length inches	9.96	10.28	9.84	10.67	10.35	9.76
Forearm grip length inches	14.33	14.29	13.70	14.69	14.17	13.82
Bi-acromion breadth inches	15.83	15.28	16.69	15.51	16.06	15.24

Note: I.D. # refers to the identification number used during filming.

TABLE 4 (Continued)

ANTHROPOMETRIC MEASUREMENTS OF SUBJECTS

	Subject Number			
I.D. #	8	9	10	11
Age years	10	11	12	13
Sature inches	71.50	75.63	66.61	64.53
Weight lbs.	192.18	223.46	176.87	132.49
Sitting height inches	35.39	36.50	34.17	33.78
Sitting knee height inches	22.56	24.37	20.32	18.86
Sitting acromial ht. inches	22.84	24.09	22.09	23.62
Shoulder-elbow length inches	15.20	15.20	13.07	13.07
Buttock-knee length inches	24.57	26.97	23.31	21.46
Acromion-radiale length inches	14.17	14.45	12.17	11.97
Radiale-styliion length inches	10.63	11.34	9.92	9.29
Forearm grip length inches	14.84	15.43	13.94	12.95
Bi-acromion breadth inches	16.30	17.01	15.63	13.62

NOTE: I.D. # refers to the identification number used during filming.

TABLE 4 (Continued)
ANTHROPOMETRIC MEASUREMENTS OF SUBJECTS

		Subject Number		
I.D. #		15	16	17
Age	years	17	18	19
Stature	inches	68.82	73.98	71.54
Weight	lbs.	164.98	193.50	169.27
5				
Sitting height	inches	34.21	36.85	36.26
Sitting knee height	inches	20.95	23.62	21.73
Sitting acromial ht.	inches	21.26	23.35	23.27
Shoulder-elbow length	inches	14.21	15.55	15.00
Buttock-knee length	inches	23.94	25.00	24.61
Acromion-radiale length	inches	12.80	14.13	13.86
Radiale-styliion length	inches	9.69	11.10	10.55
Forearm grip length	inches	13.86	15.55	14.17
Bi-acromion breadth	inches	16.65	17.24	16.22

NOTE: I.D.# refers to the identification number used during filming.

camera setting for optimum negative quality. Based on this, the following settings were used throughout this study: f/8.0, 1/30 sec. and 10 frames/sec. The following procedure was followed in recording the movements on film.

The above settings were checked before any series of pictures were taken. Focusing and alignment of the camera were also checked prior to any series. A large dial chronometer (1 division=1/100 sec.) and a wooden frame carrying plastic numbers of the movement code and the subject number were placed within the task area so that they were visible in the photograph.

When the subject arrived at the laboratory, he was advised about the procedure to be followed, the aim of the experiment, and his duties in detail. Then he filled out a questionnaire of personal information. After this, the subject was told to remove all his clothing except a small brief. All the relevant skin surface points (such as acromion, radiale, etc.) were identified by palpitating and an X mark was made using a marking pen on each of these locations.

Next, all the necessary anthropometric dimensions were measured using an anthropometer and calipers. These measurements were immediately recorded. The targets were then attached on the surface of his body at proper locations.

The rotatable platform was properly positioned and the chair was adjusted to proper back angle. Then the subject was seated centrally on the chair with his buttocks all the way

back to the backrest. He was also told to plant his feet firmly on the foot rest with the in-steps of his shoes on rudder controls. He was told to sit straight at all times and not to slump forward or sideways, except when necessary to accomplish a movement.

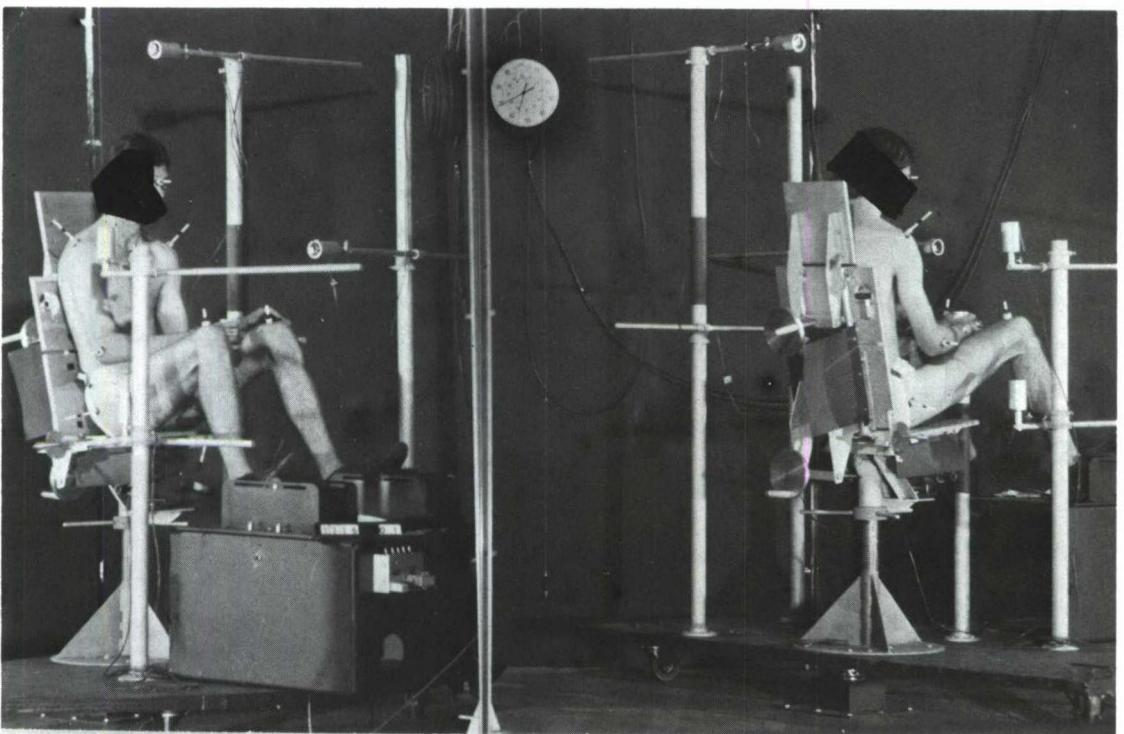
Next the controllers were adjusted to the proper positions. The subject was then permitted to practice some movements and acquaint himself with the orientation and position of each of the controls. He was also told to perform these movements at his "natural" speed. As mentioned earlier, enough practice time was allowed for the subject to attain familiarity with the task.

Meanwhile, the camera and strobe system were made ready for filming. Recording the movement on film was accomplished automatically whenever the subject moved his hand away from the starting position. This was achieved by means of proper electrical circuits connecting controller switches and the camera. Illumination in the room was kept at a low level so that the negatives would not show any "blurs" due to residual lighting. Each subject performed a total of 60 movements. During filming, the subject had a number of rest breaks while seated on the chair. These were the periods required to make the necessary adjustments for each back angle and to reload the camera. On the average, it was found that a subject spent about 3 hours in the laboratory to complete the entire sequence of movement recording.

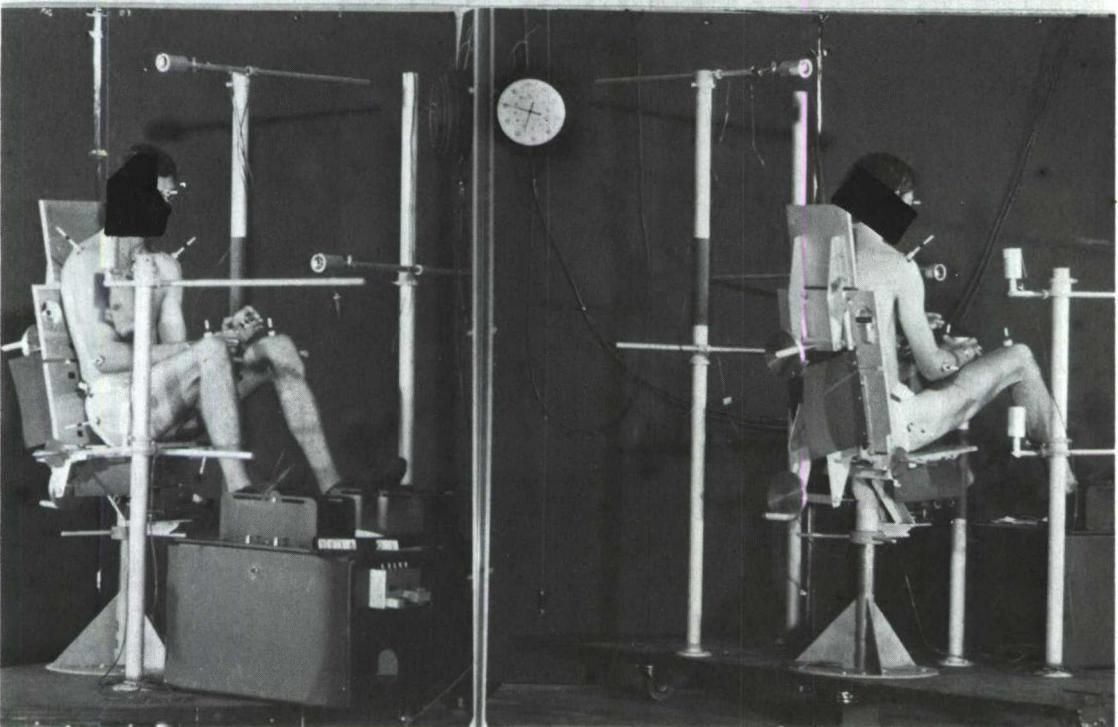
The sequence of movement for a given back angle and subject orientation was determined randomly. For a subject, the sequence of back angles was also determined randomly. Figures 11A through 11X show, at intervals of one-tenth of a second, the sequence of motion as recorded for a typical movement involving both right and left hands. Figures 11A to 11M show the forward phase and 11N to 11X show the return phase of the movement.

Data Extraction and Computations

Exposed film rolls containing records of subject movement were processed at the Technical Photo Service at Wright-Patterson Air Force Base. Negatives were directly used in the projection and digitizing system described earlier (Section 3.3) to obtain the x, y, z coordinates of selected landmarks. A number of paid student volunteers were employed to carryout this phase of the study. In order to decrease the individual variations in data extraction practices, each student was trained for at least one week using a standardized procedure. At this stage of the investigation, two additional body landmarks or points were added to the list of the 21 landmarks mentioned in Table 3. For simplicity, they were called shoulder centers, but in reality being the locations of right and left gleno-humeral joint centers, as estimated to the best ability of the digitizer operator. A number of sketches of human



A

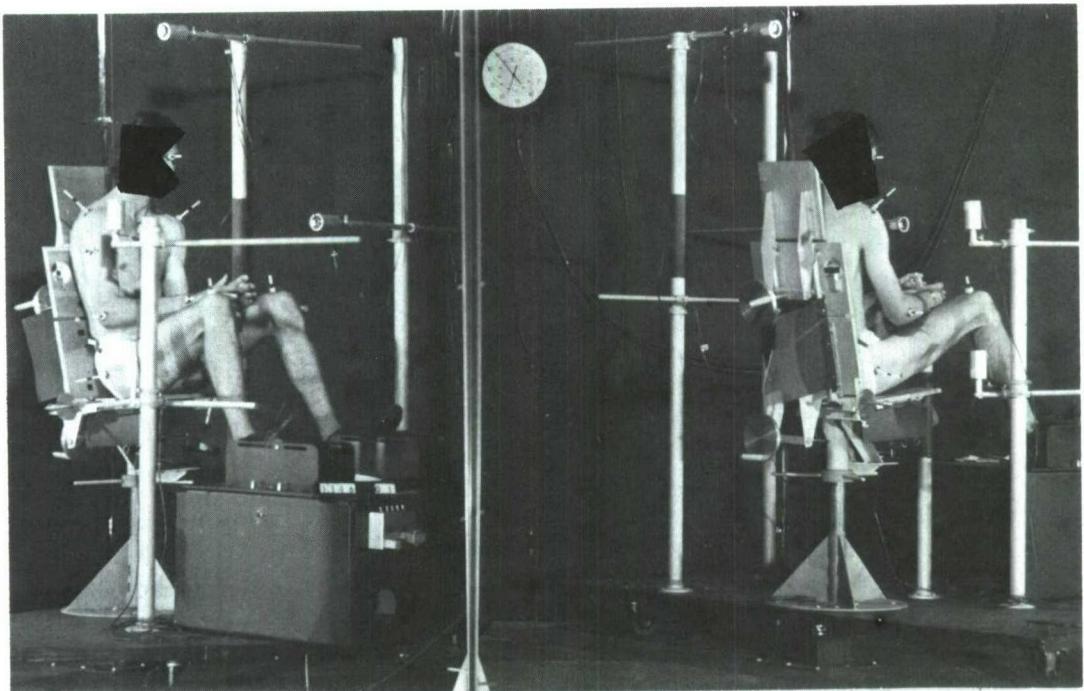


B

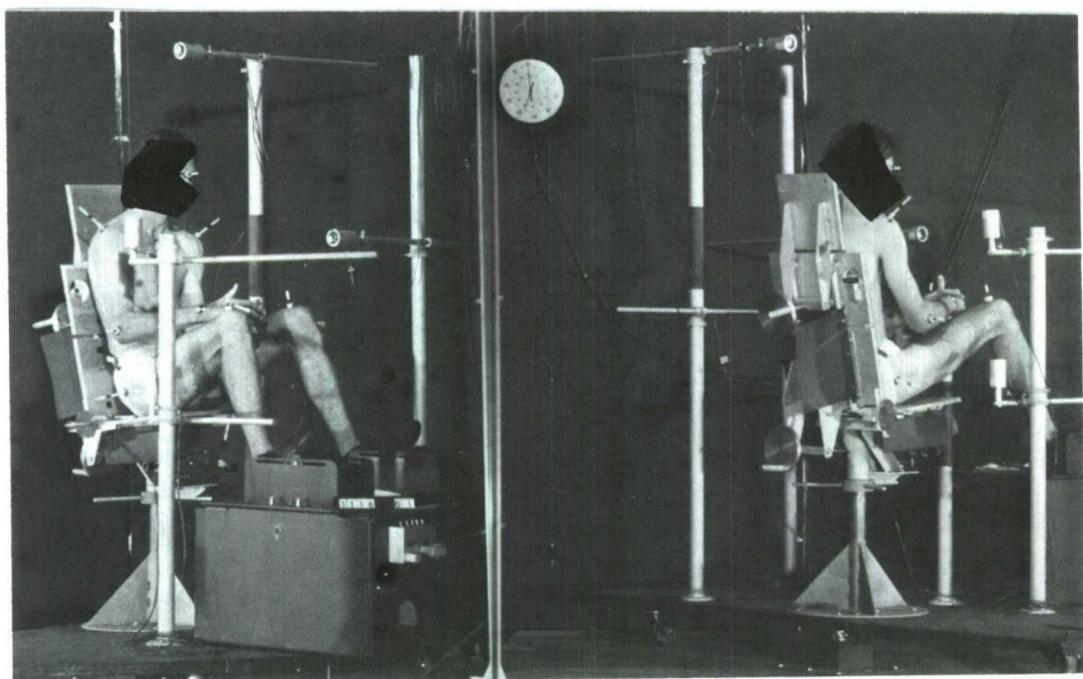
Fig. 11 A typical movement sequence

A - Forward Phase, 0.1 sec. after start

B - Forward Phase, 0.2 sec. after start



C



D

Fig. 11 (continued) A typical movement sequence

C - Forward Phase, 0.3 sec. after start

D - Forward Phase, 0.4 sec. after start

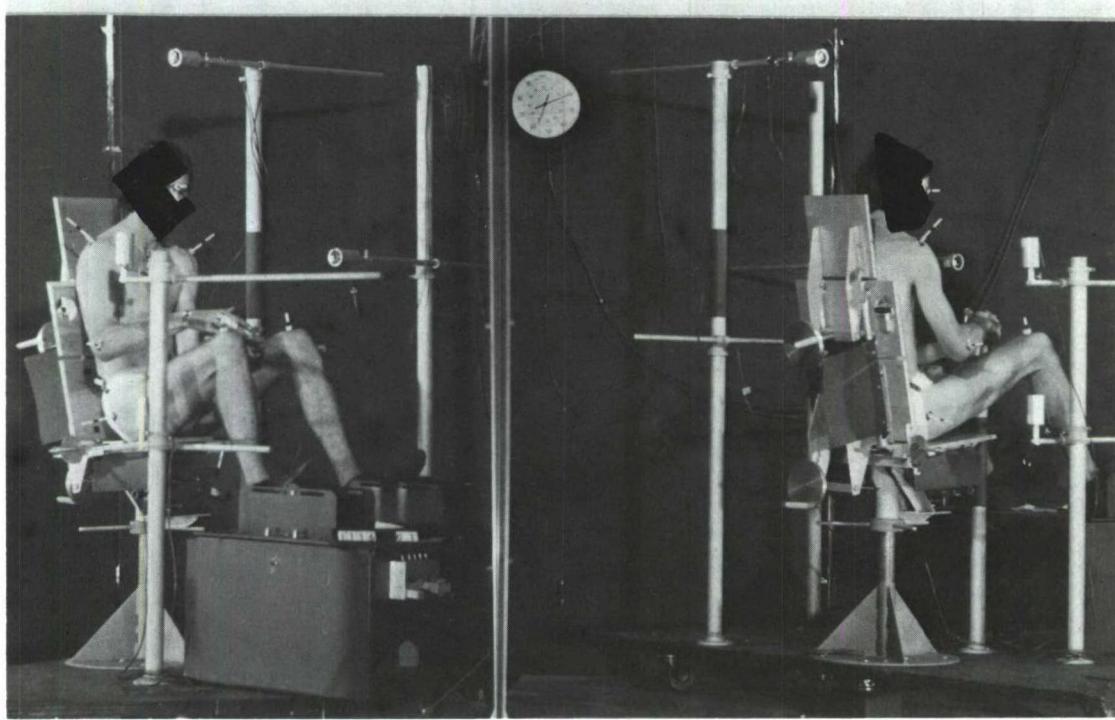
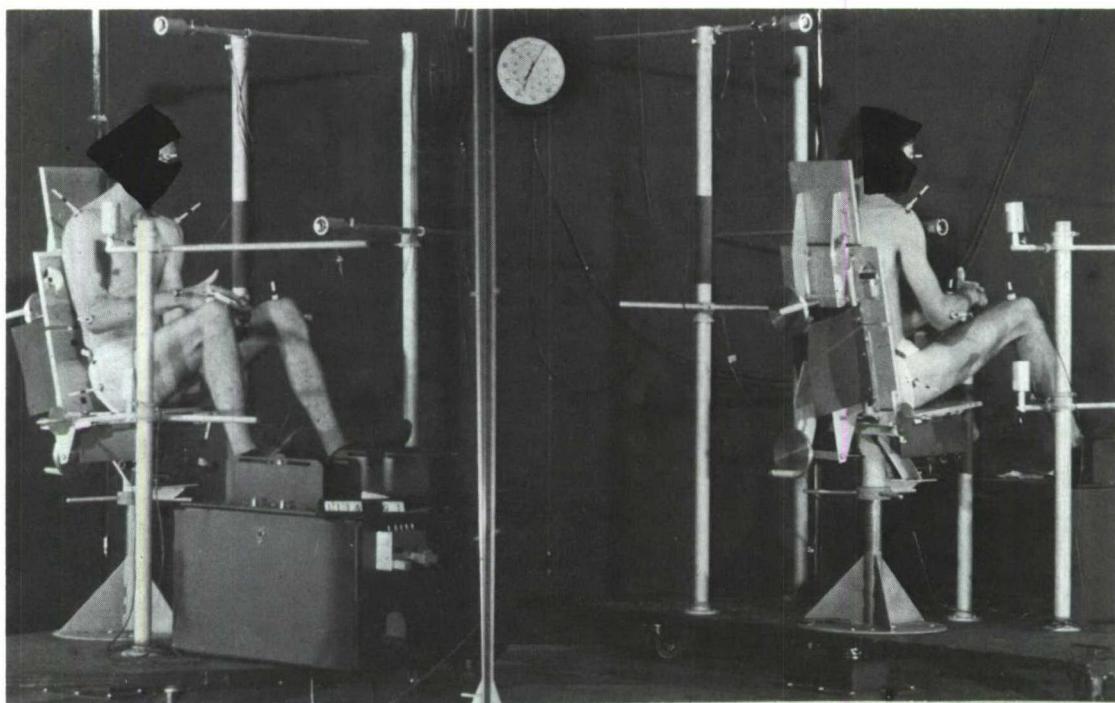
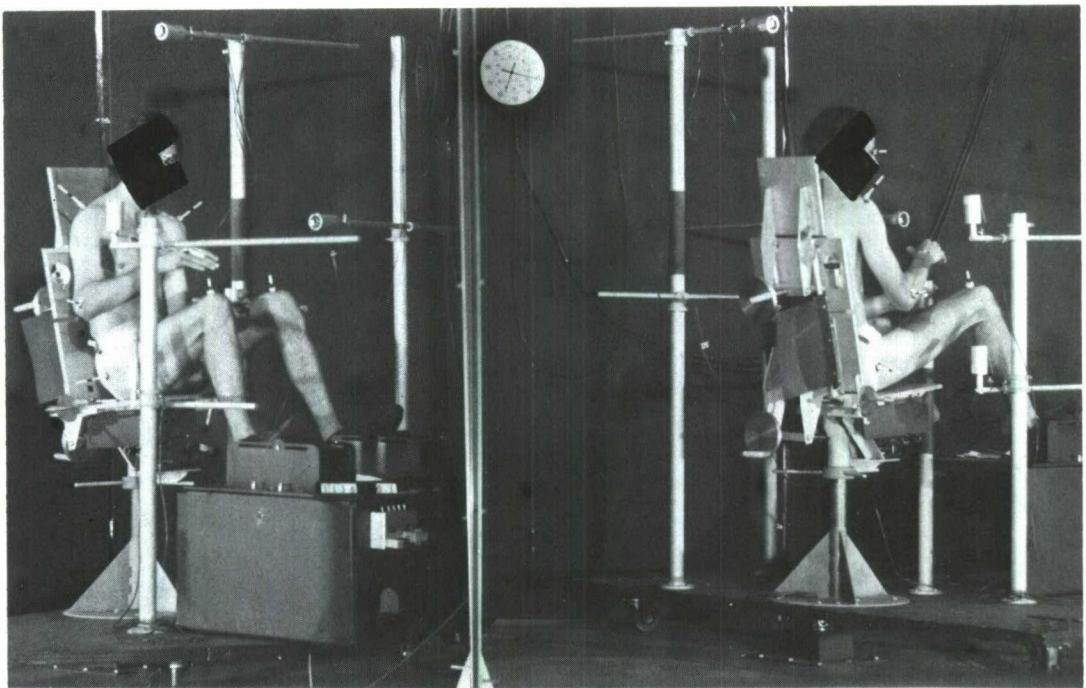


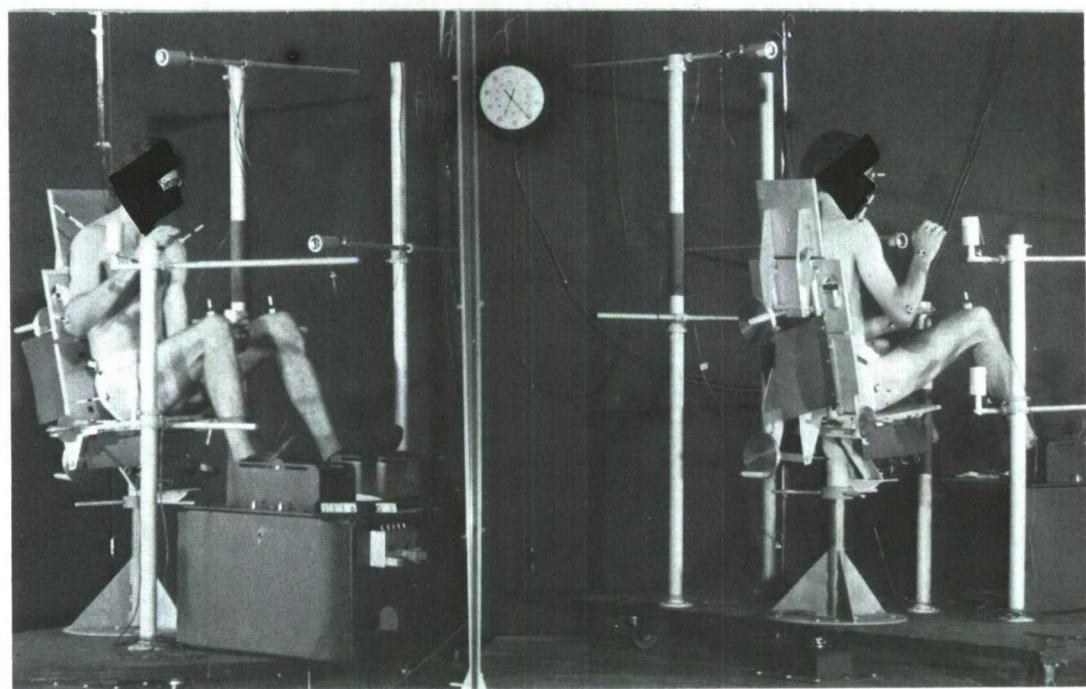
Fig. 11 (continued) A typical movement sequence

E - Forward Phase, 0.5 sec. after start

F - Forward Phase, 0.6 sec. after start



G



H

Fig. 11 (continued) A typical movement sequence

G - Forward Phase, 0.7 sec. after start

H - Forward Phase,-0.8 sec. after start

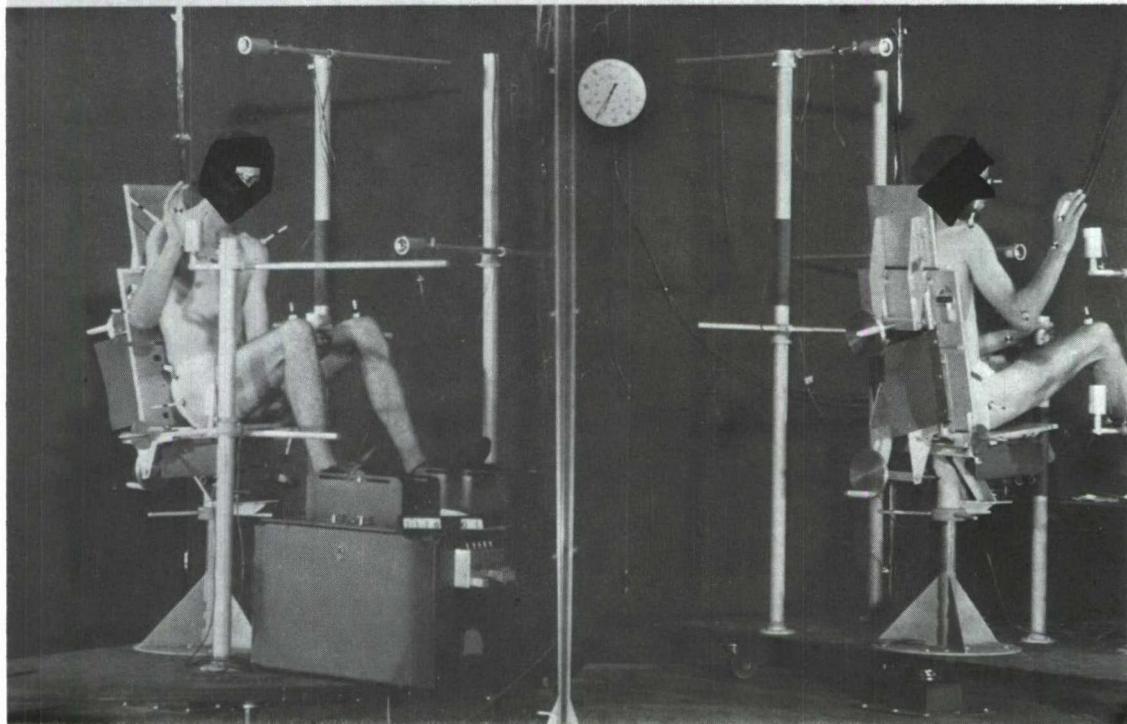
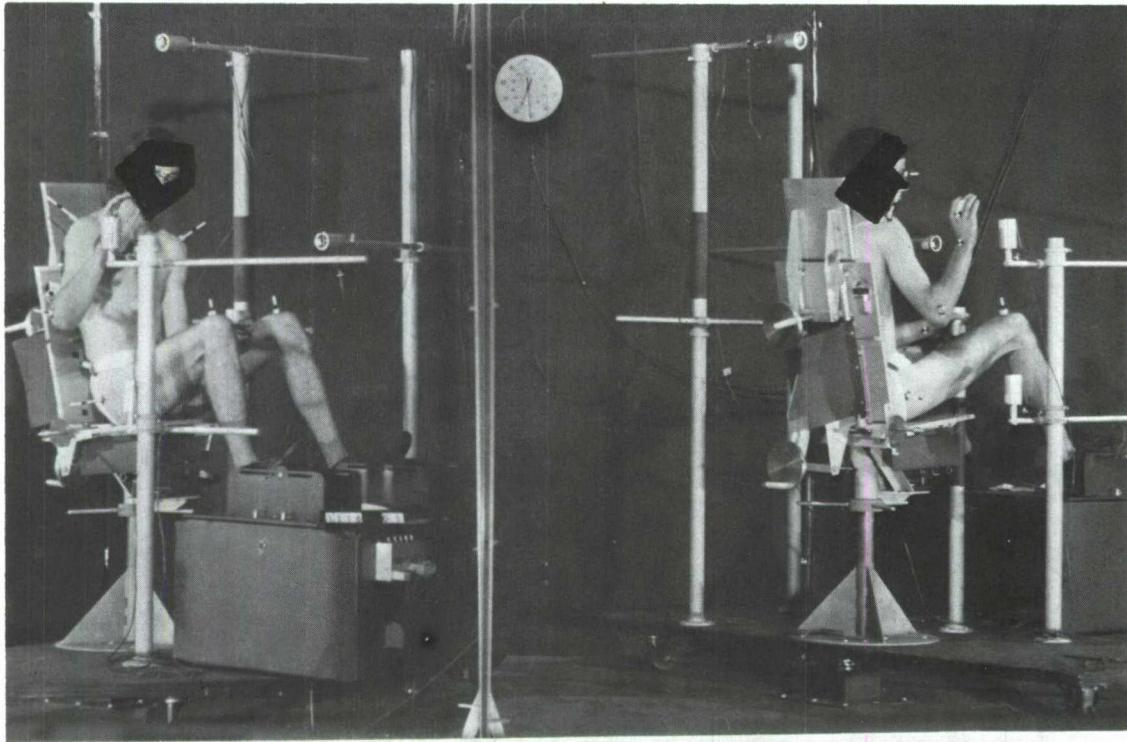
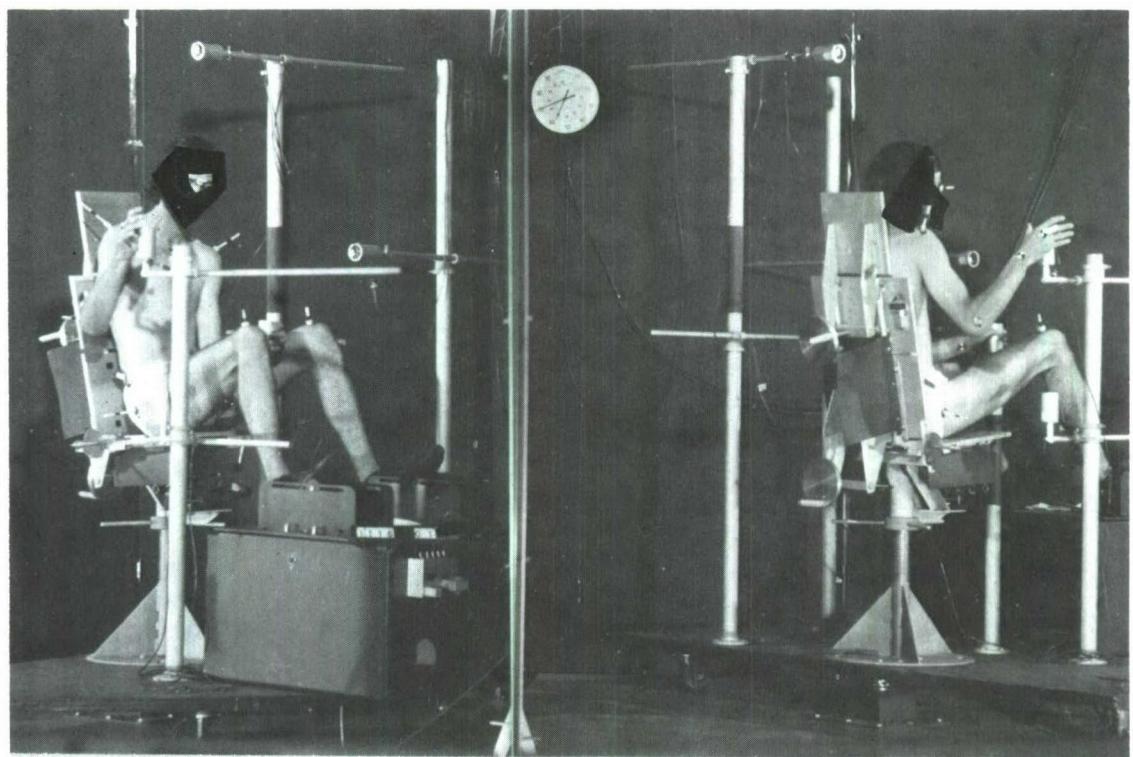


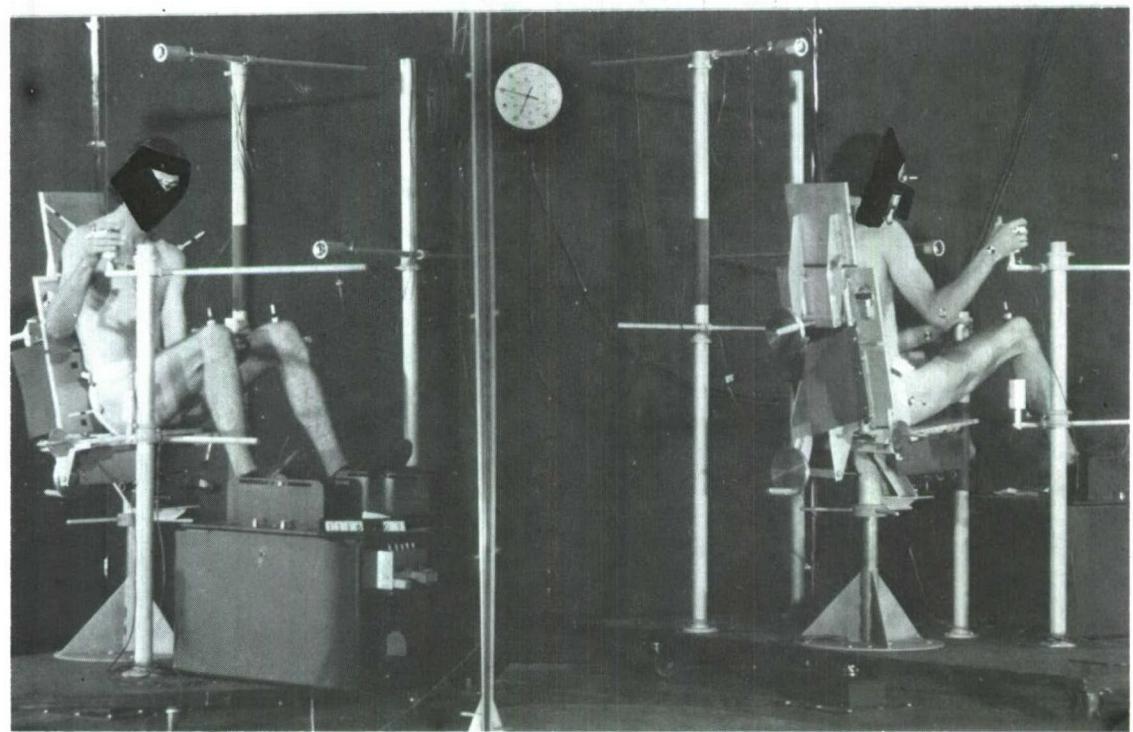
Fig. 11 (continued) A typical movement sequence

I - Forward Phase, 0.9 sec. after start

J - Forward Phase, 1.0 sec. after start



K



L

Fig. 11 (continued) A typical movement sequence

K - Forward Phase, 1.1 sec. after start

L - Forward Phase, 1.2 sec. after start

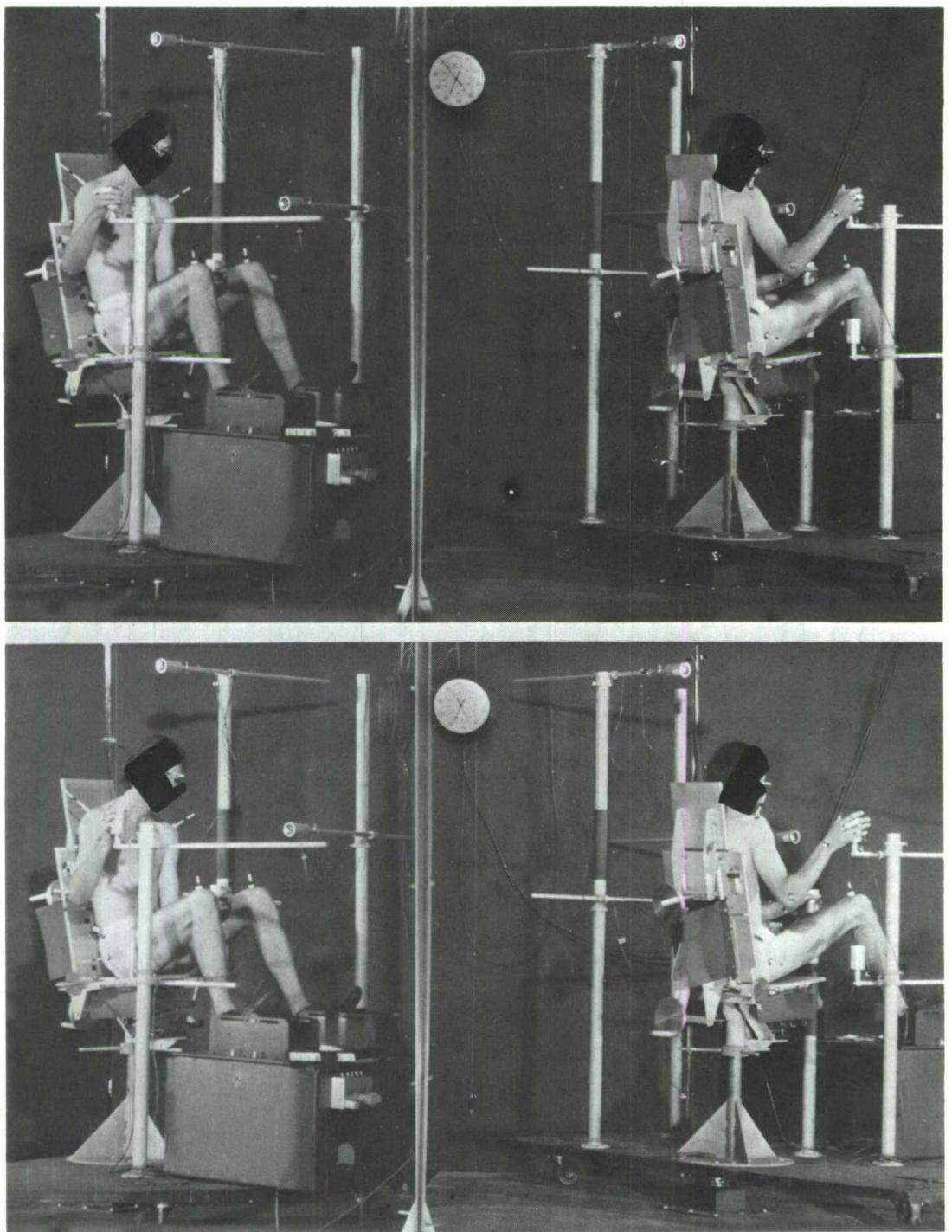


Fig. 11 (continued) A typical movement sequence

M - Forward Phase, 1.3 sec. after start

N - Return Phase, 0.1 sec. after start of
return movement

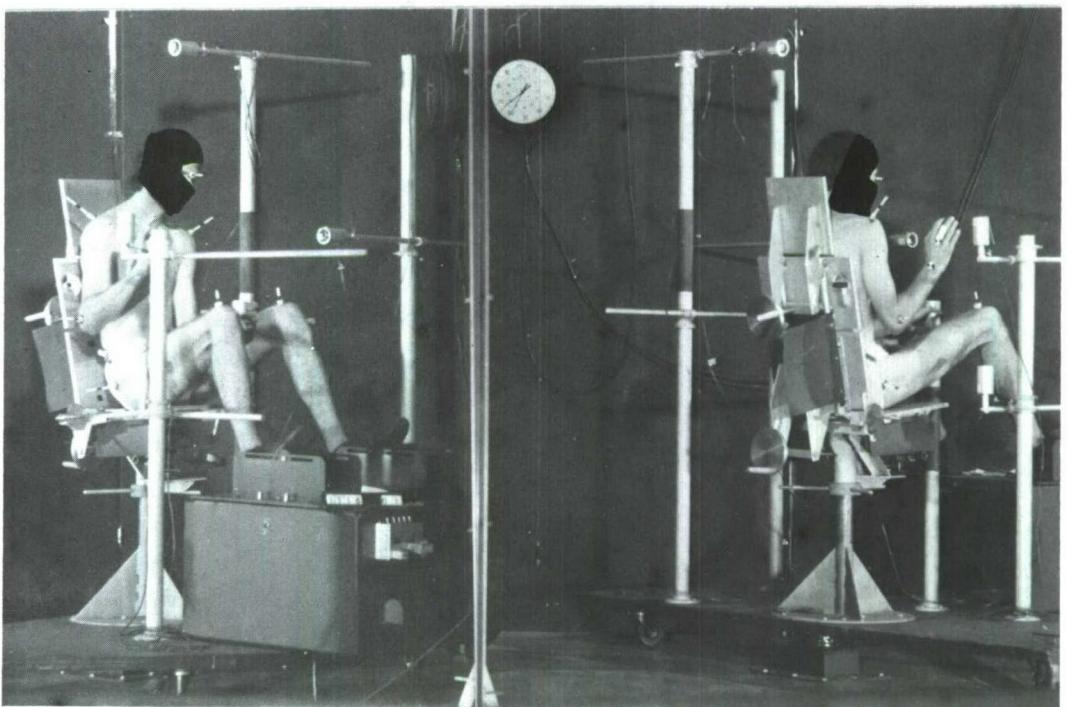
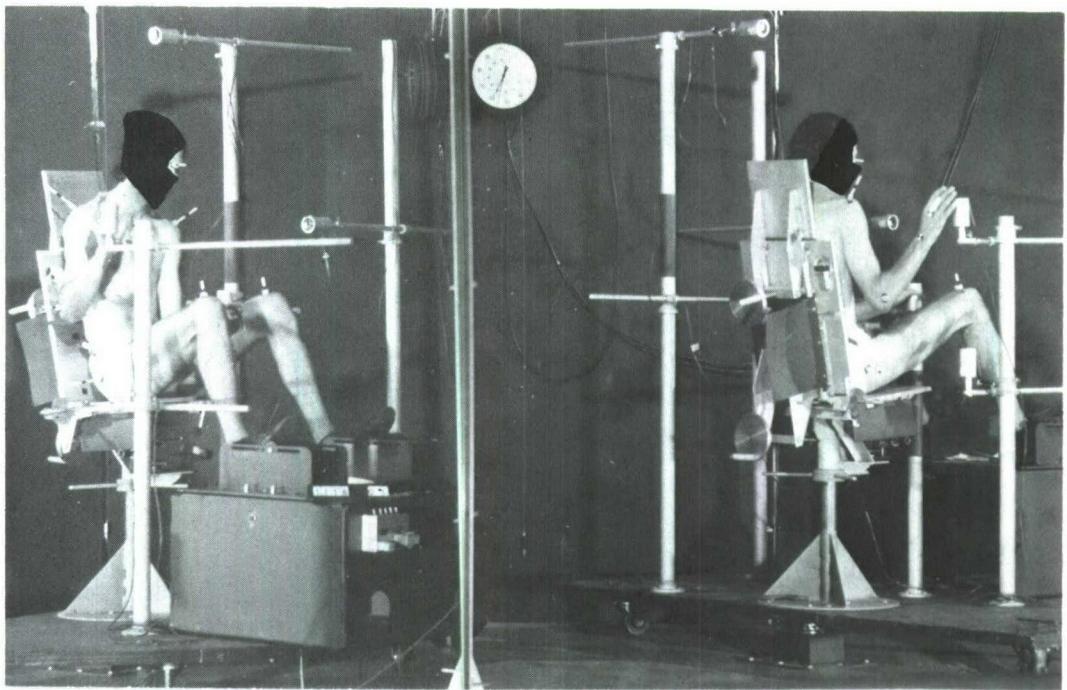
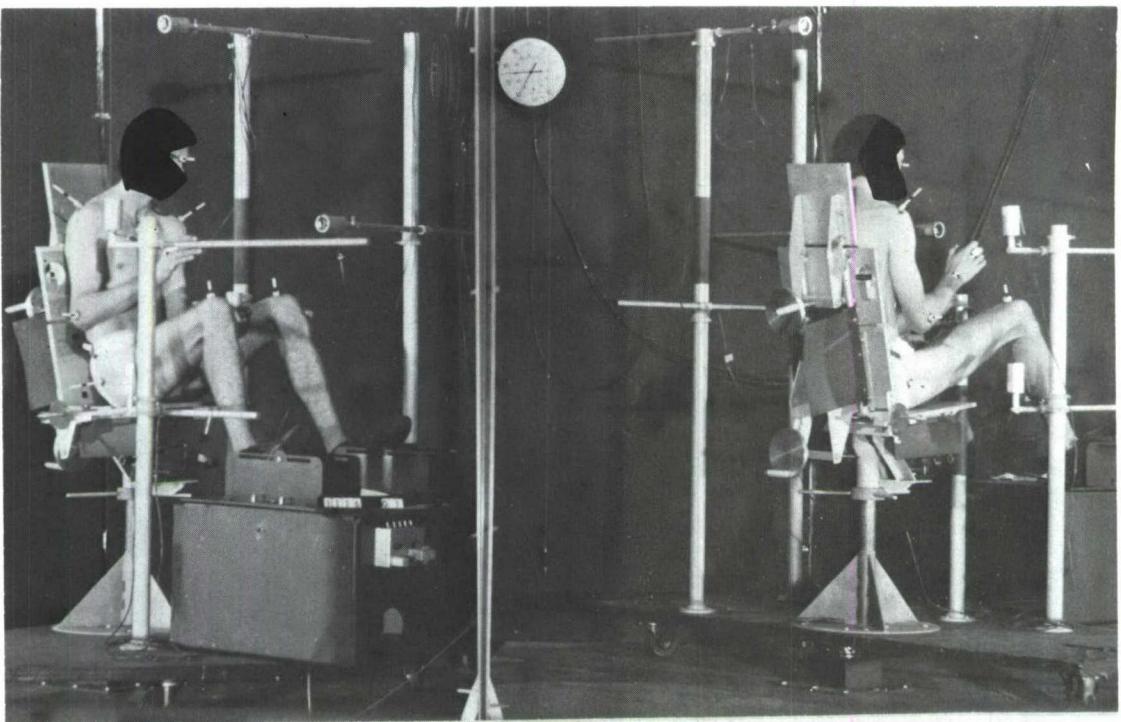


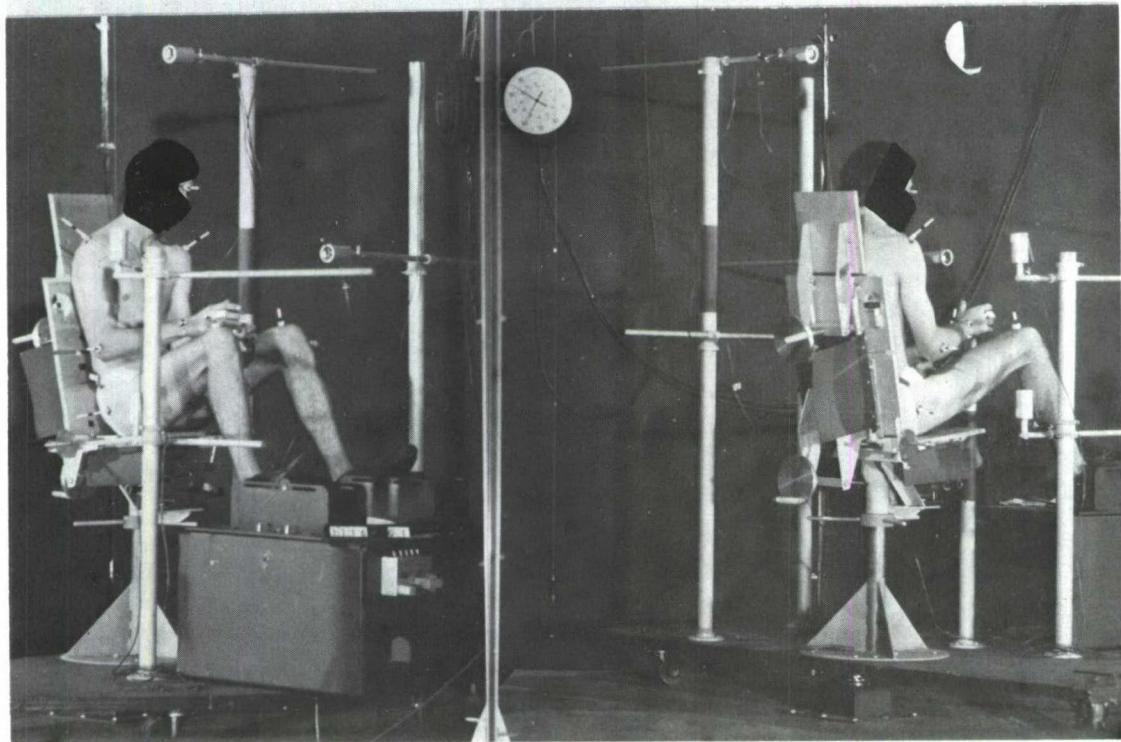
Fig. 11 (continued) A typical movement sequence

0 - Return Phase, 0.2 sec. after start

P - Return Phase, 0.3 sec. after start



Q



R

Fig. 11 (continued) A typical movement sequence

Q - Return Phase, 0.4 sec. after start

R - Return Phase, 0.5 sec. after start

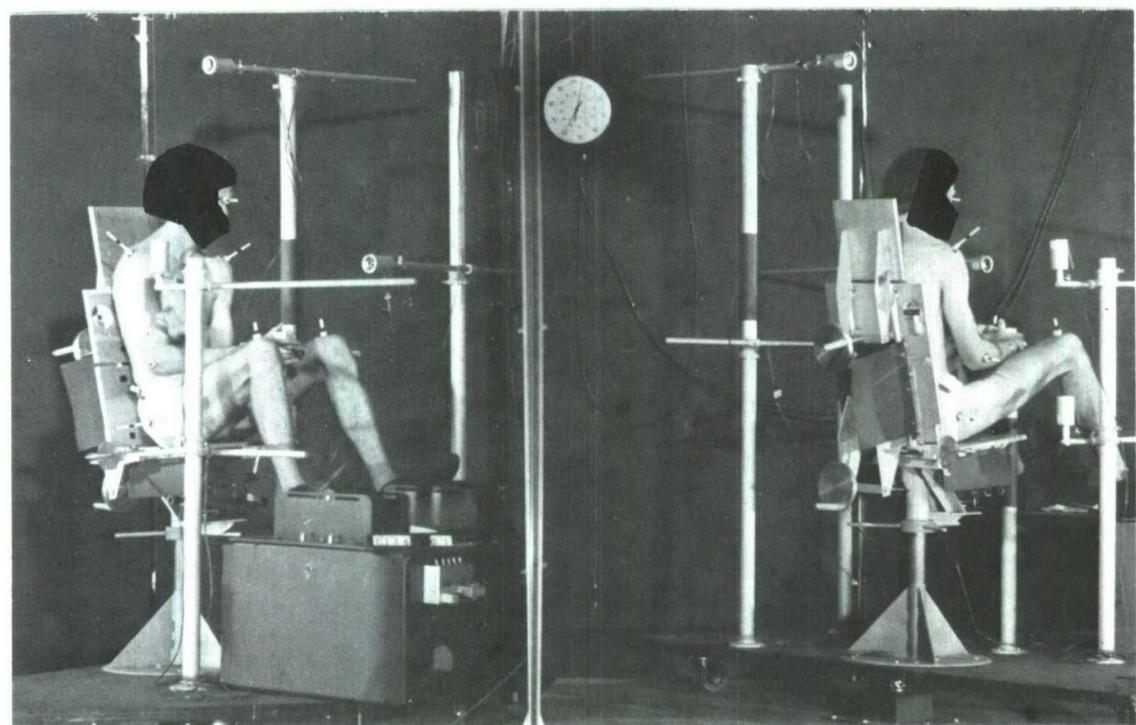
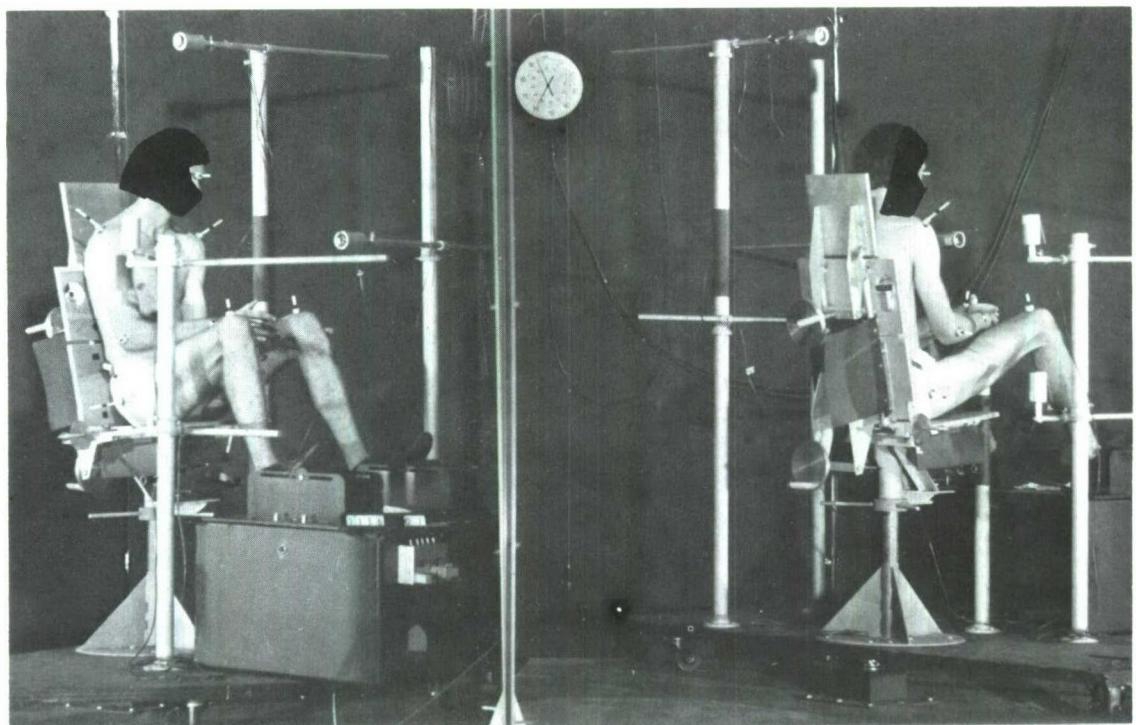
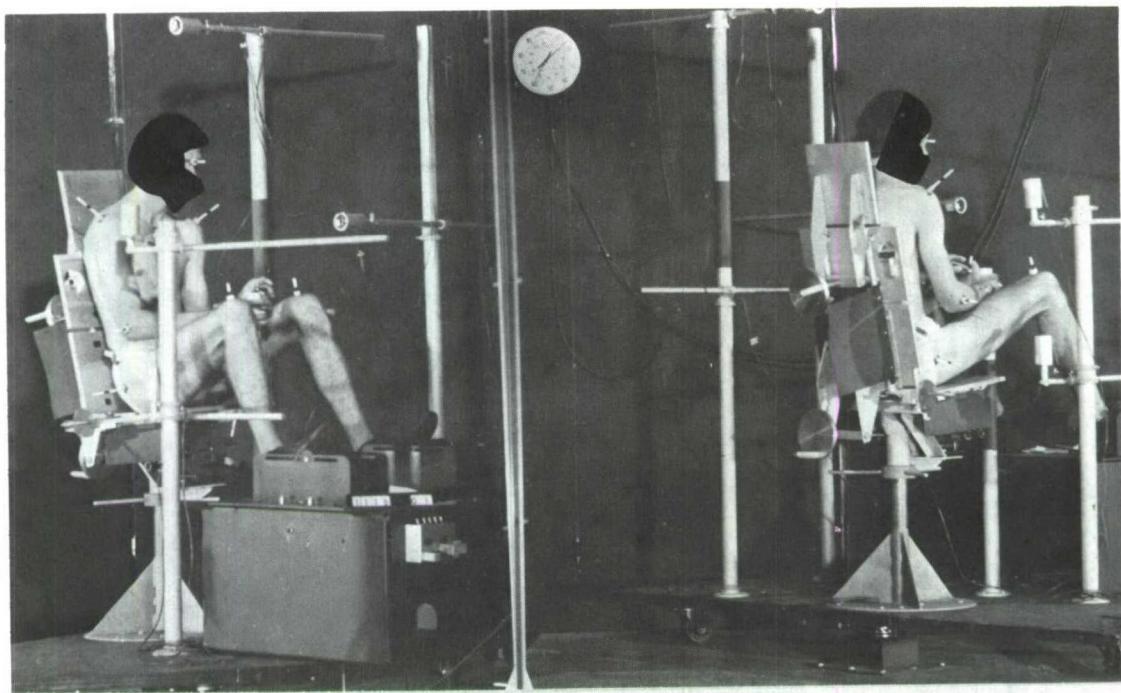


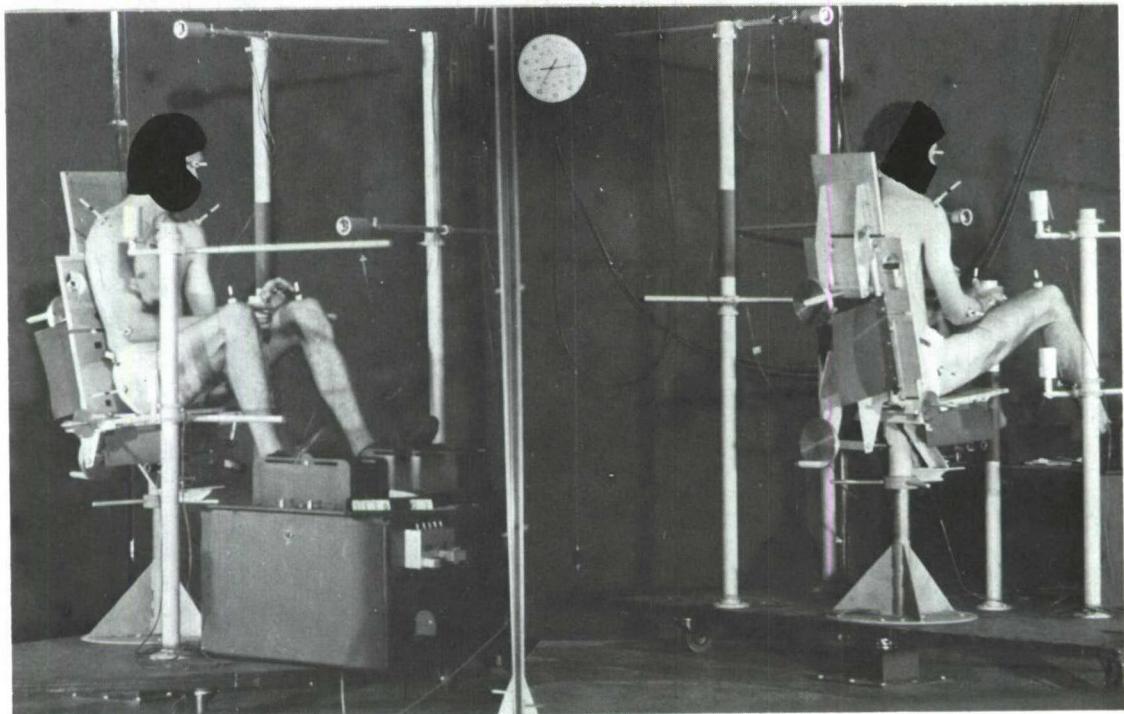
Fig. 11 (continued) A typical movement sequence

S - Return Phase, 0.6 sec. after start

T - Return Phase, 0.7 sec. after start



U

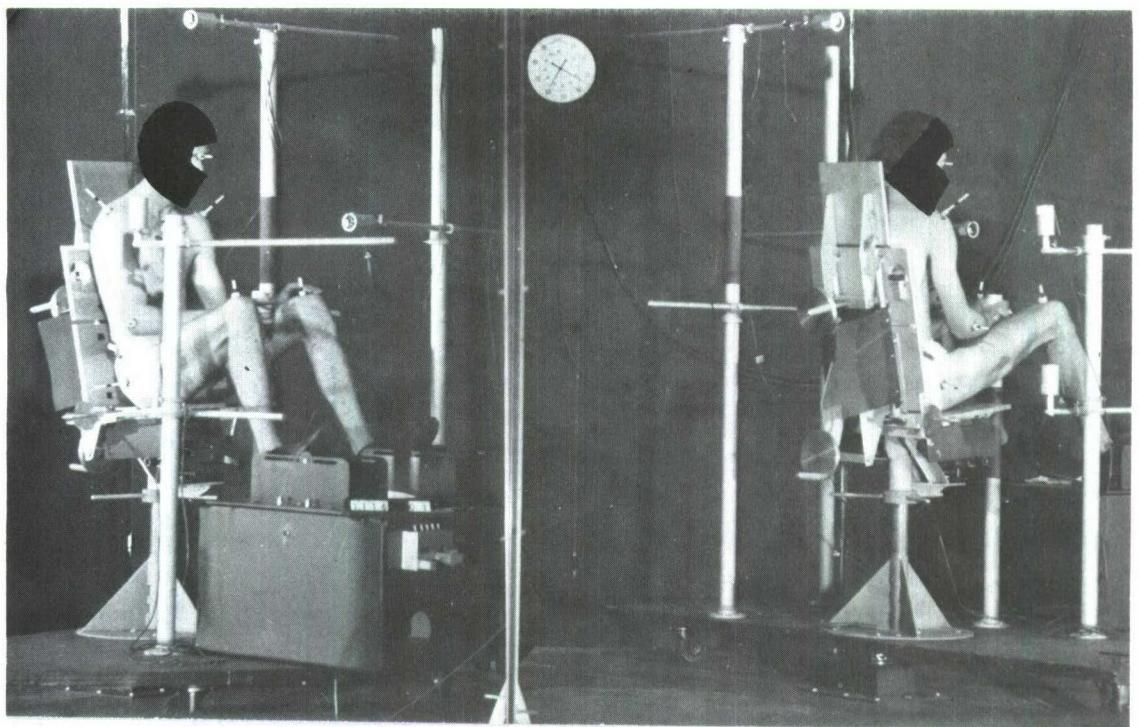


V

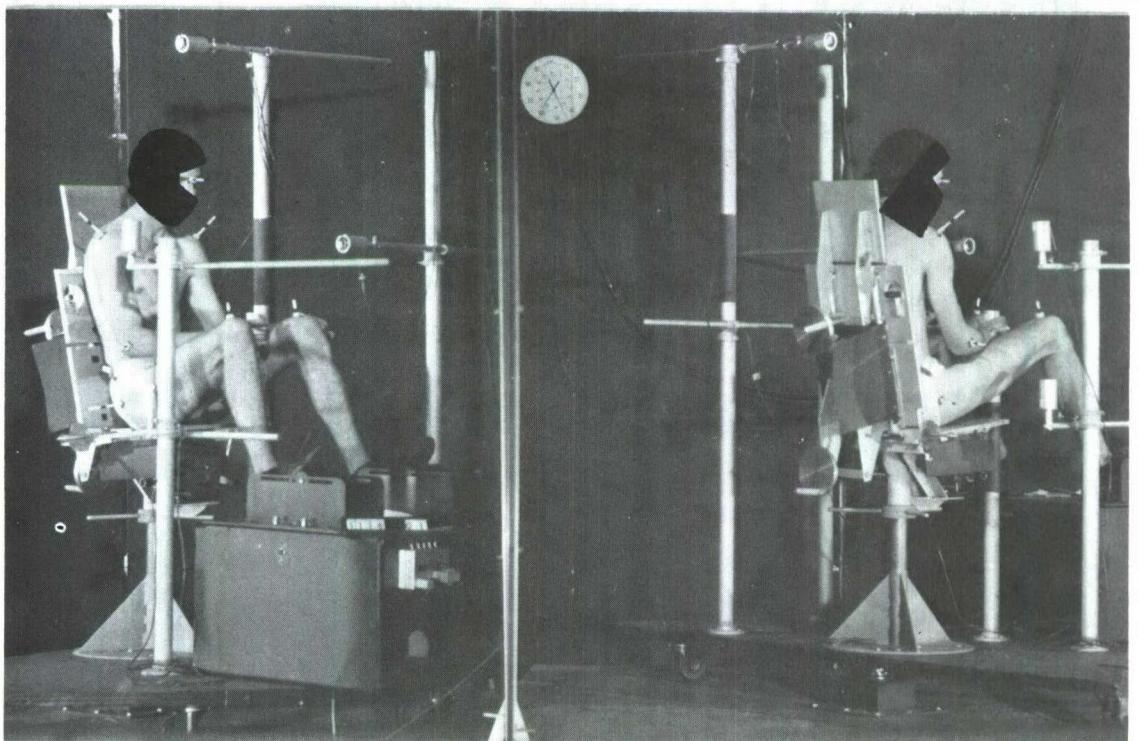
Fig. 11 (continued) A typical movement sequence

U - Return Phase, 0.8 sec. after start

V - Return Phase, 0.9 sec. after start



W



X

Fig. 11 (continued) A typical movement sequence

W - Return Phase, 1.0 sec. after start

X - Return Phase, completion after 1.1 sec. after start

body showing different upper extremity configurations with locations of shoulder centers marked were made available to the digitizer operators to help in making good and uniform estimates.

The information output from the digitizer was first converted, wherever necessary, to correspond to skin surface points. This procedure was necessary for all points marked by extension type targets. The next step was to convert the digitizer measurements into real-world measurements or coordinates with a known system of axes. The final step was to convert the measurements thus obtained into coordinates of specific body points in relation to the standard system with SRP as origin. The computer program written in FØRTRAN language to carryout the above computations is reported in Appendix A.

RESULTS

The results presented in the following sections are based on data gathered from only 7 of the 20 subjects used. This decision was made after it became apparent that analyzing the data from 20 subjects would be an unusually large task requiring more data extraction time than was available. These seven subjects (about one-third of the original sample size) were chosen based on their weight and stature to represent, as closely as possible, the U.S. Air Force population. The relevant anthropometric characteristics of these seven subjects are shown in Table 4 (subject numbers 1 through 7).

A comparison of the means and standard deviations of these anthropometric measurements of the seven subjects with those of the student/pilot population of the Air Force as determined in 1967 is presented in Table 5.

A cursory analysis of the anthropometric data shows that the subject sample ($n=7$) used compares favorably with the 1967 U.S.A.F. Survey (student pilots) in all the anthropometric variables considered for this study. Using Chi-square tests, it can be concluded that the standard deviations for the subject sample did not significantly differ at 5 percent level from those of the 1967 survey. Also t-tests performed on mean values did not show any significant differences at 0.05 level for stature, weight, sitting, knee height, sitting acromial height, shoulder-elbow height, buttock knee length, elbow-grip length and bi-acromial breadth. Mean values of age, sitting height and radiale-styliion length were not significantly different at 0.02 level and those of acromial-radiale length were not significantly different at 0.01 level. The results of the Chi-square and t-test are given in Table 6.

The initial set of results for the paths of movements was obtained in a graphic form representing the real world coordinates of the locations of the various body landmarks at 0.1 second intervals. This was made using a CALCOMP plotter integrated with a CDC 6600 computer. Such sets of graphic data were very useful in identifying any gross errors made during earlier data reduction and computational stages. One

TABLE 5
COMPARISON OF SUBJECT SAMPLE WITH PILOT POPULATION*
 (Sample Size = 7)

Anthropometric Variables		<u>Present study</u>		<u>1967 USAF Survey</u>	
		\bar{x}	σ_x	\bar{x}	σ_x
Age	years	21.42	2.27	24.03	2.84
Stature	inches	69.37	1.69	69.88	2.28
Weight	lbs.	154.20	25.60	170.00	20.80
Sitting height	inches	35.08	1.46	36.73	1.18
Sitting knee height	inches	21.34	1.10	21.97	0.94
Sitting acromial height	inches	22.99	1.30	23.94	1.10
Shoulder-elbow length	inches	14.57	0.67	14.09	0.63
Buttock-knee length	inches	23.23	1.26	23.74	0.98
Acromion-radiale length	inches	13.62	0.51	12.99	0.63
Radiale-styliion length	inches	10.12	0.31	10.63	0.55
Elbow grip length	inches	14.17	0.31	13.90	0.59
Bi-acromial breadth	inches	15.47	0.83	16.02	0.79

*A Review of Anthropometric Data of German Air Force and United States Air Force Flying Personnel 1967-1968, Edited by H. J. Grunhofer and G. Kroh, AGARD-AG-205, 1975.

Table 6

RESULTS OF STATISTICAL TESTS ON SUBJECT'S ANTHROPOMETRIC VARIABLES

<u>Anthropometric Variables</u>	<u>Test on Standard Deviation</u>			<u>Test on Mean</u>	
	χ^2	χ^2	χ^2	t	t
Age	3.833	14.449	1.237	3.042*	0.025,6
Stature	3.296	14.449	1.237	0.0798	2.447
Weight	9.089	14.449	1.237	1.633	2.447
Sitting height	9.185	14.449	1.237	2.990*	2.447
Sitting knee height	8.216	14.449	1.237	1.515	2.447
Sitting Acromial height	8.380	14.449	1.237	1.933	2.447
Shoulder-elbow length	6.786	14.449	1.237	1.896	2.447
Buttock-knee length	9.918	14.449	1.237	1.071	2.447
Acromion-radiale length	3.932	14.449	1.237	3.268**	2.447
Radiale-styliion length	1.906	14.449	1.237	4.353*	2.447
Elbow-grip length	1.656	14.449	1.237	2.304	2.447
Bi-acromial breadth	6.623	14.449	1.237	1.753	2.447

*Significant at 0.05 level but not at 0.02 level
 **Significant at 0.05 level but not at 0.01 level

such set of graphic data showing the paths of movement of the various body landmarks under a specific combination of seat configuration and control location is presented in Figure 12. While the usual path of movement of a body segment is a smooth curve, straight line combinations are often employed. This can be seen in Figure 12. Similar graphical representation of paths of movement were obtained for all the movements performed by each of the seven subjects. The individual graphic data sets along with the supporting tabular data have been deposited with the Crew Station Integration Branch of Human Engineering Division Aerospace Medical Research Laboratory. Due to the large amount of data generated, they are not included in this report.

Figure 12 shows the spatial coordinates for the various body landmarks at successive intervals of 0.10 seconds. The upper extremity can now be represented by a series of stick diagrams to show its movement. This is obtained by connecting the grip center, wrist center, elbow center and shoulder center locations for each frame. Figure 13 shows such a series of diagrams constructed during the forward movement of the right hand from the side arm controller to the overhead control as performed by Subject #3. The various limb configurations of the same subject during return movement, i.e., from overhead to side arm controller, are presented in Figure 14. In both these figures the time interval between succeeding configurations is 0.1 second. The total time taken for upward

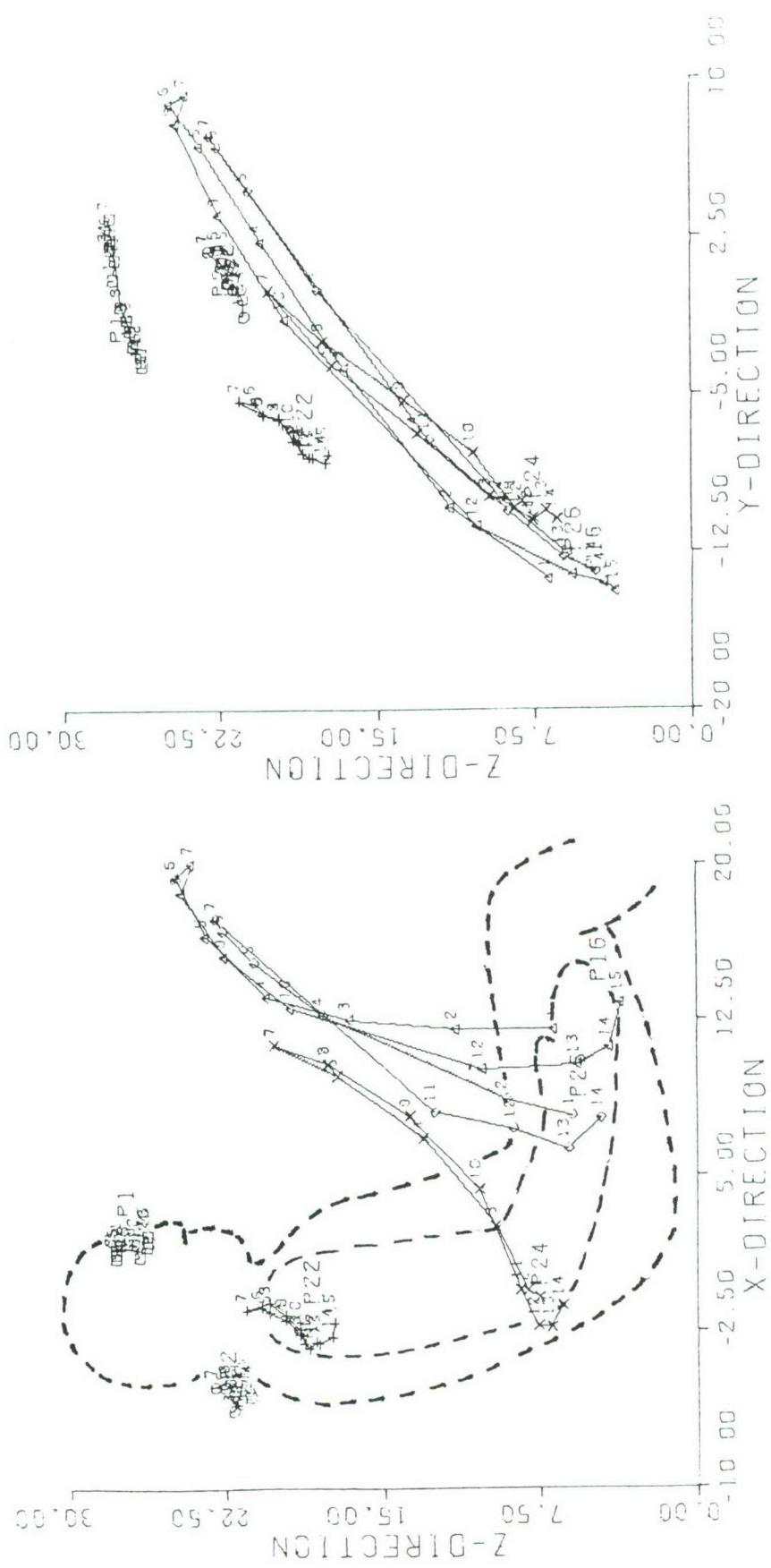


Figure 12. Paths of movement of certain selected body landmarks during right hand movement from side arm controller to panel release and return. Back rest angle = -30° ; Subject #4.

- - Nasion;
- - Cervical;
- \blacktriangle - Right grip center;
- \blacklozenge - Right wrist center;
- \times - Right elbow center;
- $+$ - Right shoulder center.

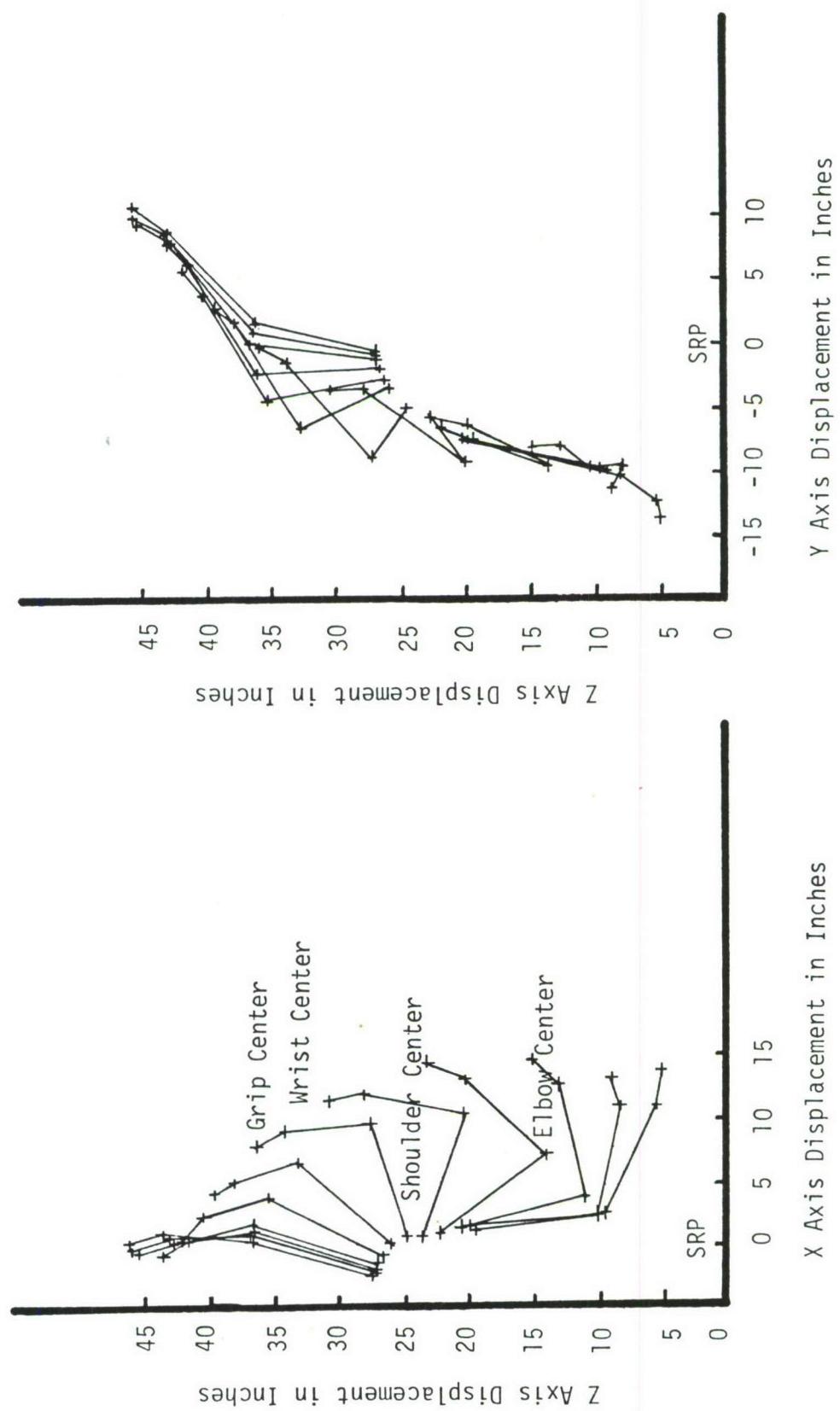


Figure 13. Stick diagrams of right upper extremity when right hand moves from side arm controller to overhead controller at 13° back angle. Subject #3

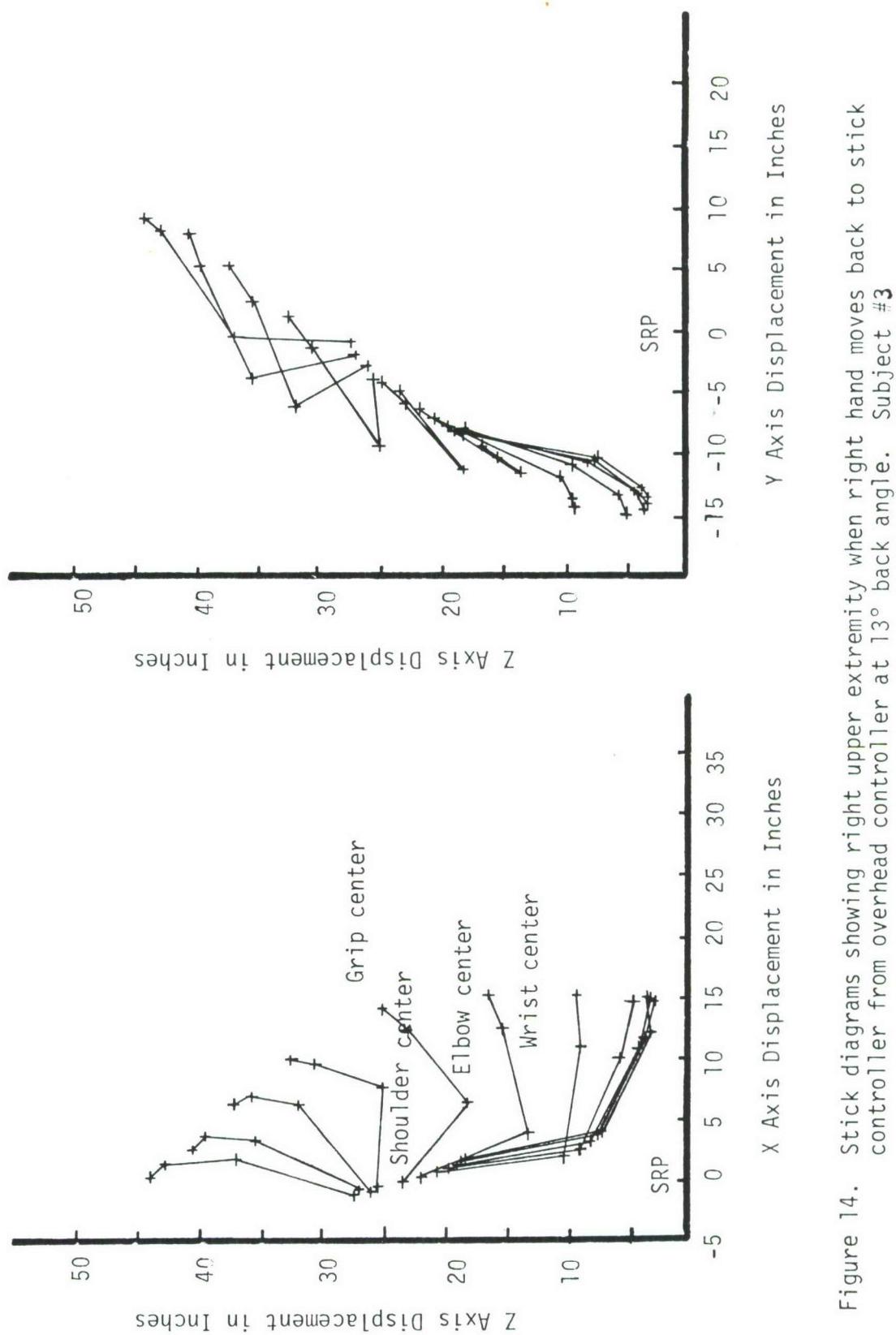


Figure 14. Stick diagrams showing right upper extremity when right hand moves back to stick controller from overhead controller at 13° back angle. Subject #3

movement was 1.2 seconds and that for return movement was 1.1 seconds. Figures 15 through 19 show the spatial locations, at 0.1 second time intervals, respectively, of grip center, wrist center, elbow center, shoulder center and nasion, respectively, during these same movements. It can be observed that the paths of grip center (Figure 15) and wrist center (Figure 16), while displaced in space from each other, exhibit a general similarity in pattern. They seemed to differ in pattern only when the hand is near a control. This is because of the necessity to effect a wrist rotation in order to orient the hand properly with respect to the control. In general, it can be said that during large phases of the movement very little movement is noticed at the wrist joint.

A note of explanation is needed for Figure 19 showing nasion for subject #3. In this figure, the starting points of forward and return paths are displaced farther from the rest of the points on the curves. This is because the photographic system was synchronized with hand controller and a considerable amount of head movement usually preceded the hand release of the controller. Thus a segment of head movement was not recorded at all. This is the reason for the observed wide gap between the assumed starting position and the first recorded position in the paths shown in Figure 19.

Paths of Movement

The data gathered on the seven subjects were pooled and further analyzed to obtain the statistical average or mean

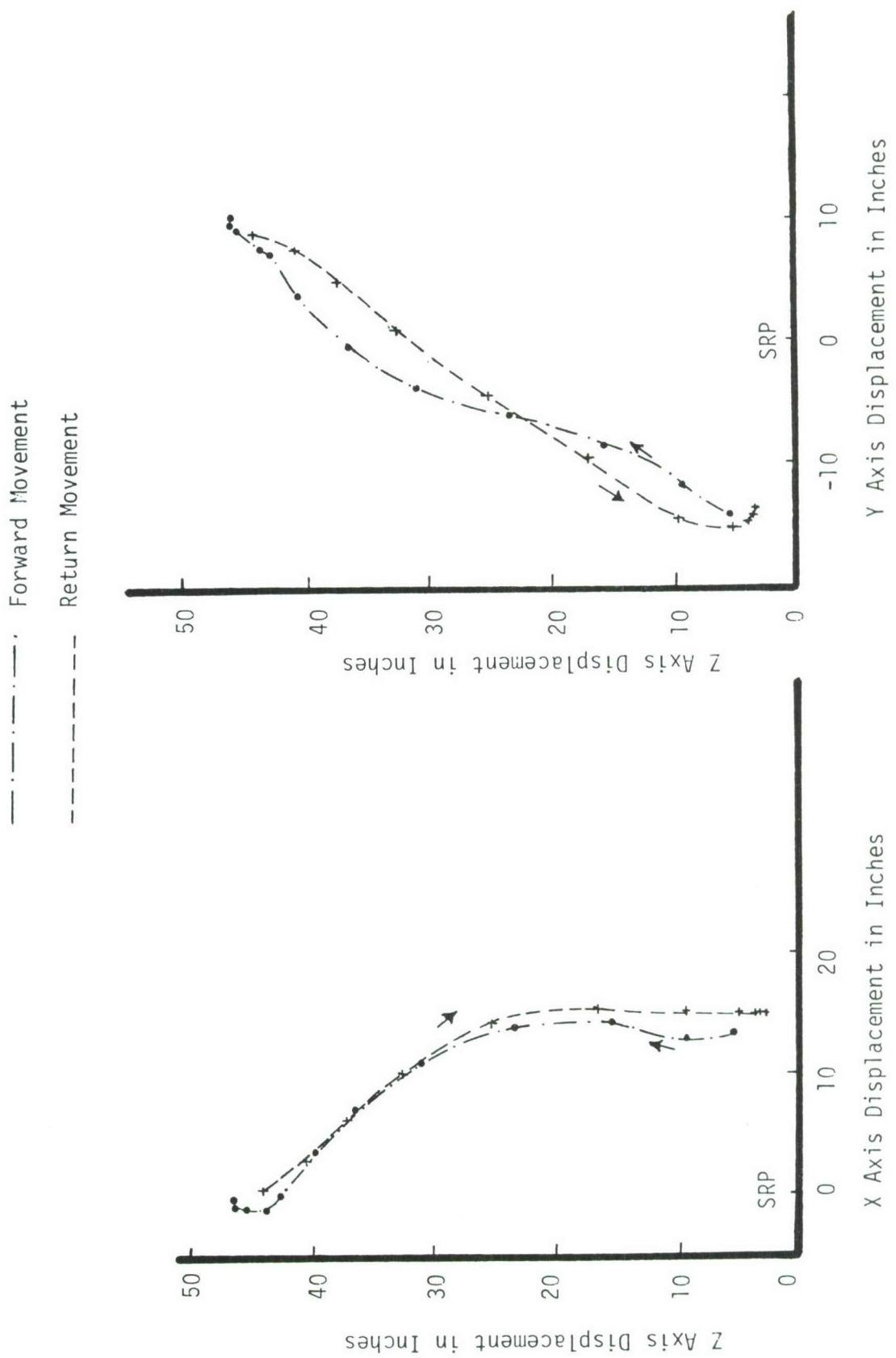


Figure 15. Paths of movement for right hand grip center during forward and return movement starting from side arm controller to overhead controller at 13° back angle.
Subject #3

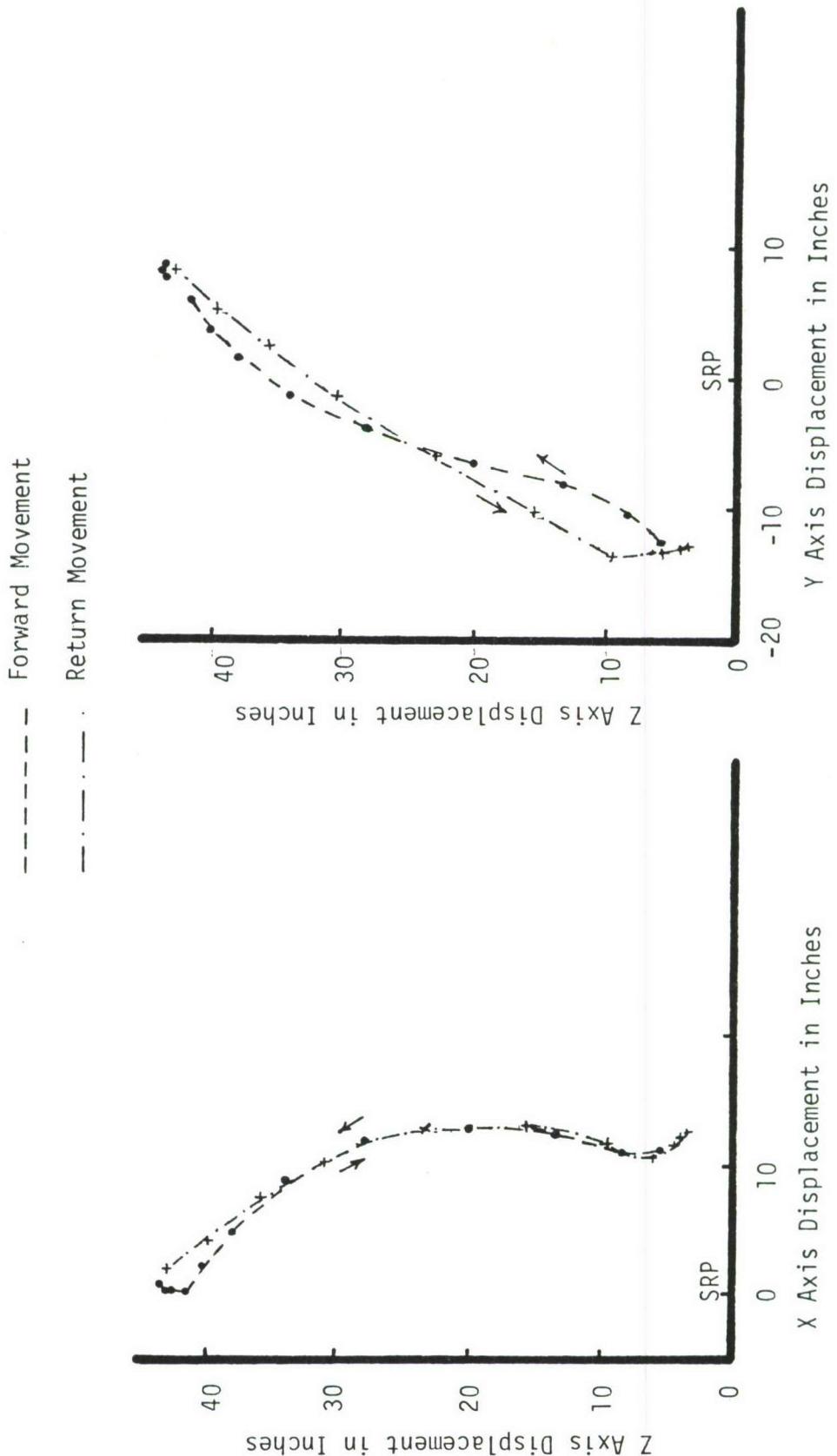


Figure 16. Path of movement of the right wrist joint center for forward and return movement starting from side arm controller to overhead controller at 13° back angle. Subject #3

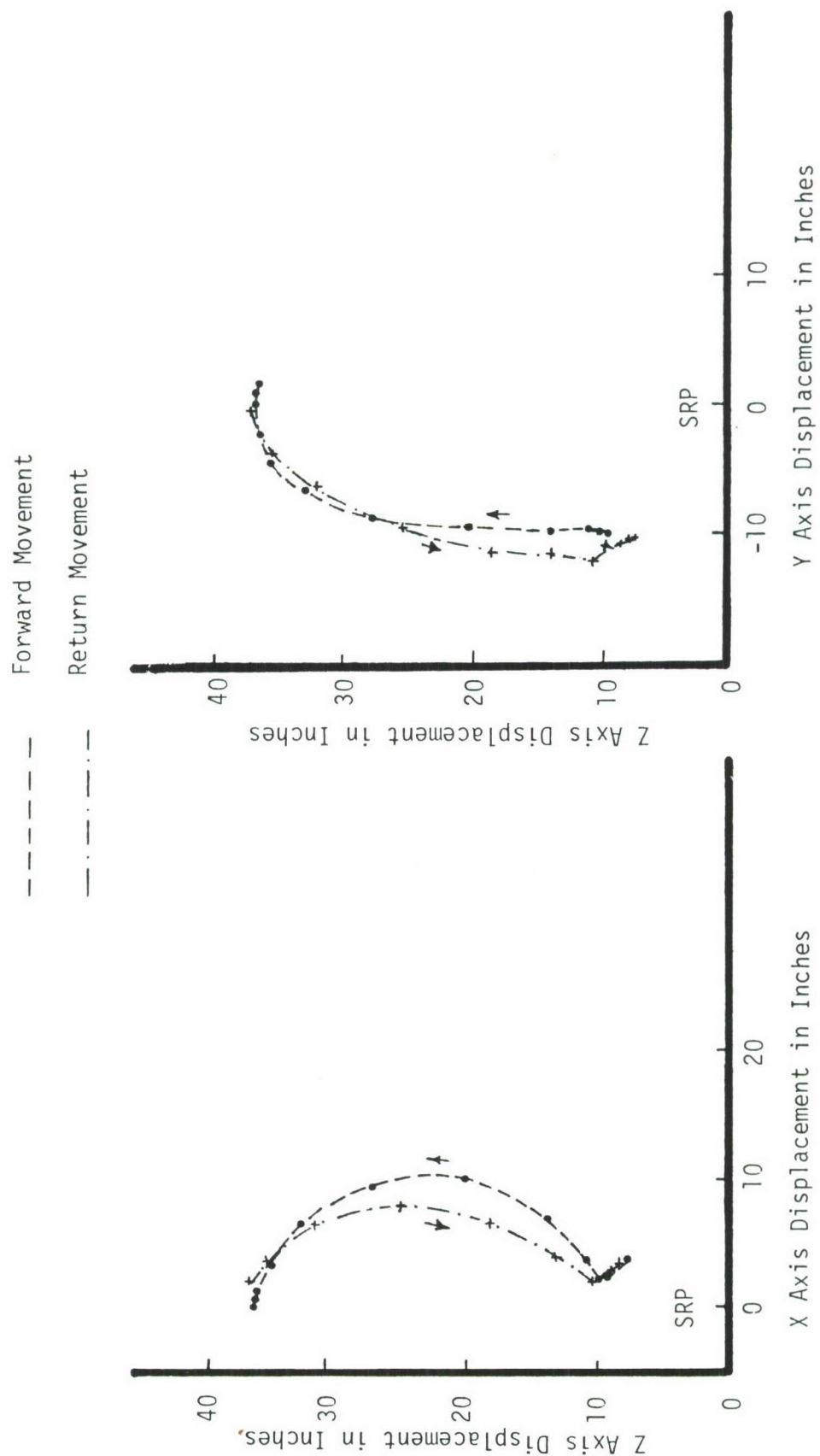


Figure 17. Path of movement of right elbow joint center for forward and return movement starting from side arm controller to overhead controller at 13° back angle. Subject #3

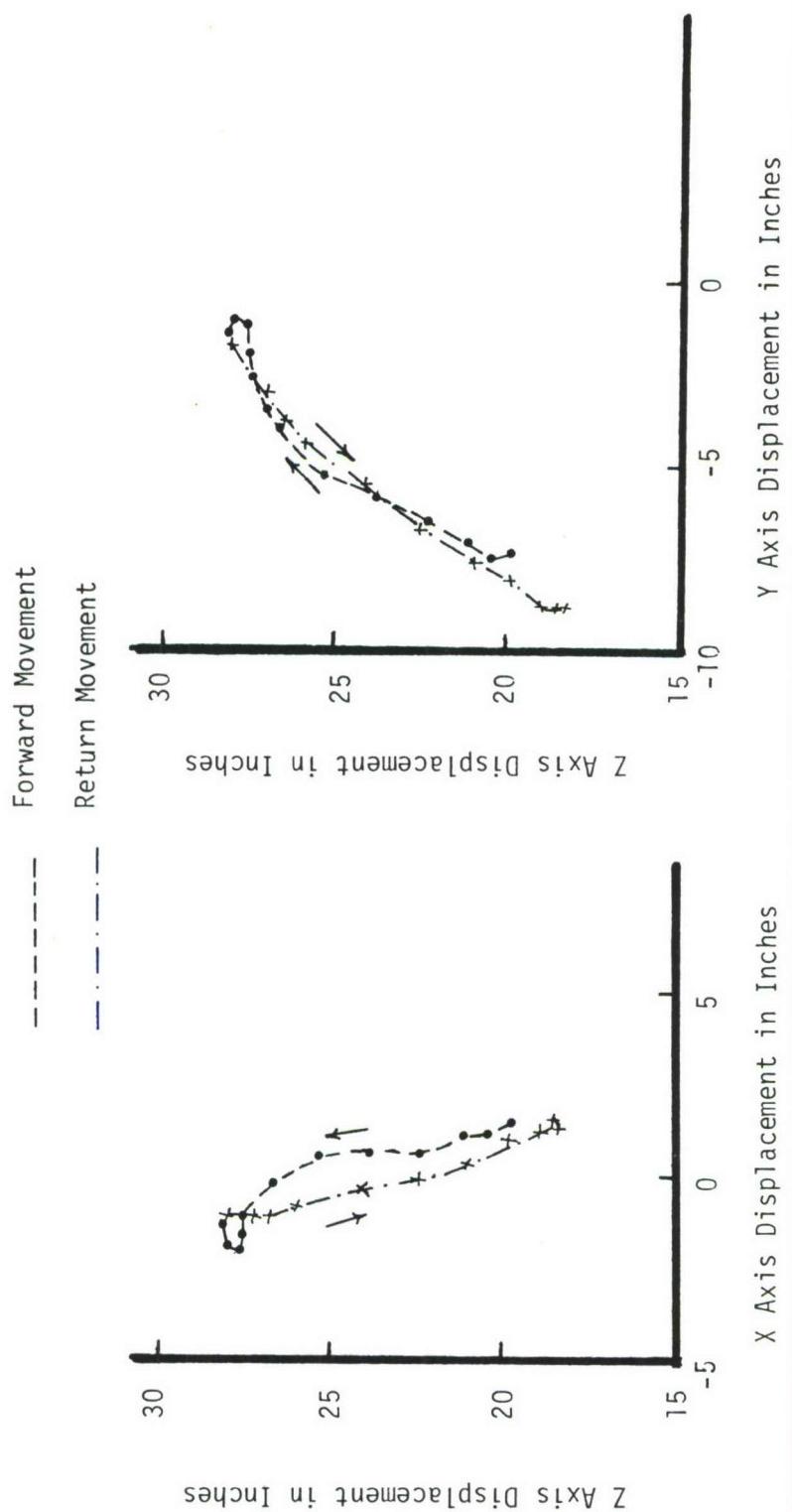


Figure 18. Path of movement of shoulder joint center. Forward and return movement starting from side arm controller to overhead controller at 13° back angle. Subject #3.

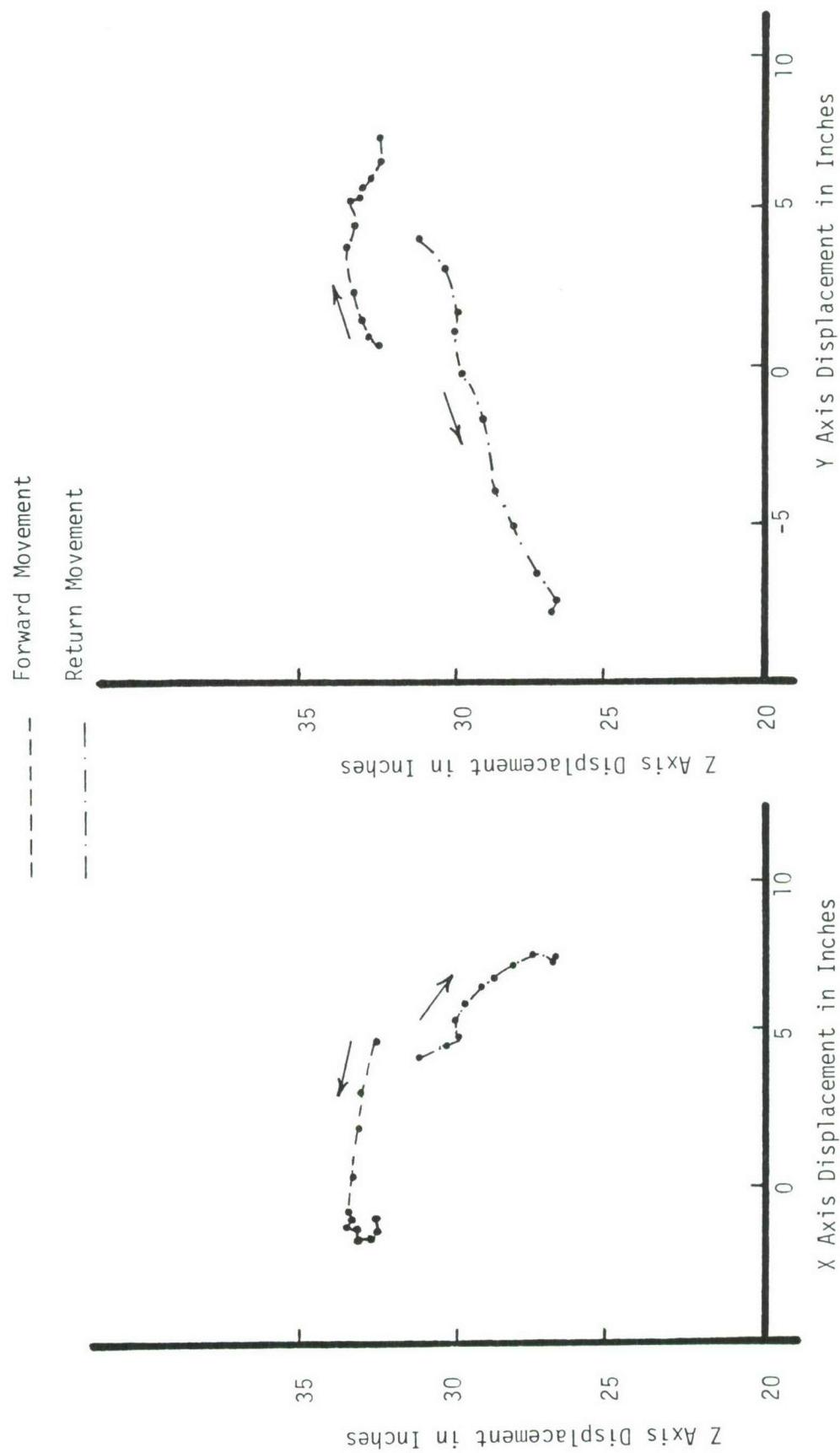


Figure 19. Paths of movement of nasion for forward and return movement starting from side arm controller to overhead controller using right hand at 13° back rest. Subject #3

paths of movement. The objective was to obtain three-dimensional limits of the paths of movement. Normally, it will be expected that the path of movement of any joint center, for a given set of starting and ending controller positions, would fall within these three-dimensional limits during the entire movement. Thus, the most probable path for a given joint center will be defined by a path represented by the average or mean path of movement and a set of three-dimensional limits. The three-dimensional limits themselves, will be varying over the length of the mean path.

For the statistical analyses, where average displacement profiles and stick diagrams were made, the movement time for each subject was divided into 10 equal periods. Under these conditions, it was possible to consider the X, Y, and Z coordinates for each landmark at 10 equal time intervals during the movement expressed as a percentage of the total movement time. Since movement time varied between subjects, it was essential to use the above described procedure to obtain the movement data excluding the effects of the speed of movement.

The first frame of recorded pictures represents the position exactly 0.10 second after the start of the movement. For the purpose of this analysis it was assumed that the starting position from one controller was identical to the ending or movement completing position towards the same control for any given joint center location.

The limb configurations for forward and return phases of the movement between side arm controller and overhead controller at 13°, back rest angles are presented in Figures 20 and 21. These configurations are based on averaged locations of the various joint centers. They are comparable to those presented in Figures 13 and 14 for Subject #5. The forward phase of the movement is further represented as individual joint center movements in Figures 22 through 26. In these figures, in addition to the mean or average path, the actual paths of movements of two selected subjects are also presented. One of the subjects (#5) is large, about 80th percentile for stature and weight and the second, Subject #1, is small, about 10th percentile of stature and weight of the Air Force population. No limb dimensions were considered. From Figures 22 and 23, it can be seen that Subject #5 effected a very different path from others. No explanation can be given for this deviation.

Figures 27 and 28 show stick diagrams for forward movement between side arm controller and overhead controller at 30° and 65° back rest angles, respectively. In comparing Figures 20, 27 and 28, it must be noted that control location has been changed according to Table 1.

Displacement-Time Relationships

From a COMBIMAN input viewpoint, it is also useful to look at the results of this investigation as displacement-time profiles along the coordinate axes. Figures 29 through 32 present this kind of information for various joint centers as the right hand moves from side arm controller to overhead

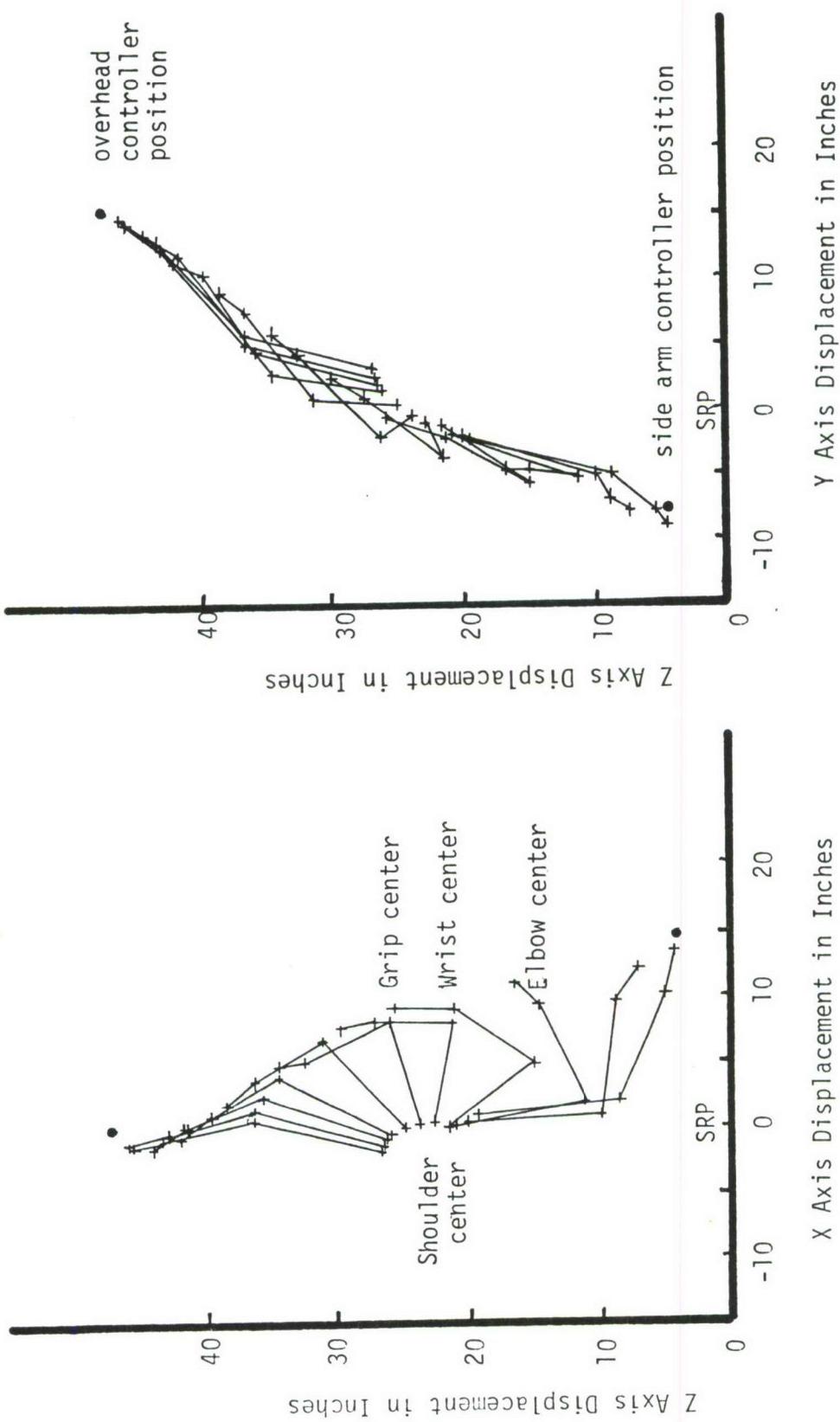


Figure 20. Stick diagrams of right upper extremity (shoulder, elbow, wrist and grip centers) at time intervals of 1/10th the average total movement time. Movement made from side arm controller to overhead controller at 13° back angle -- average for 7 subjects.

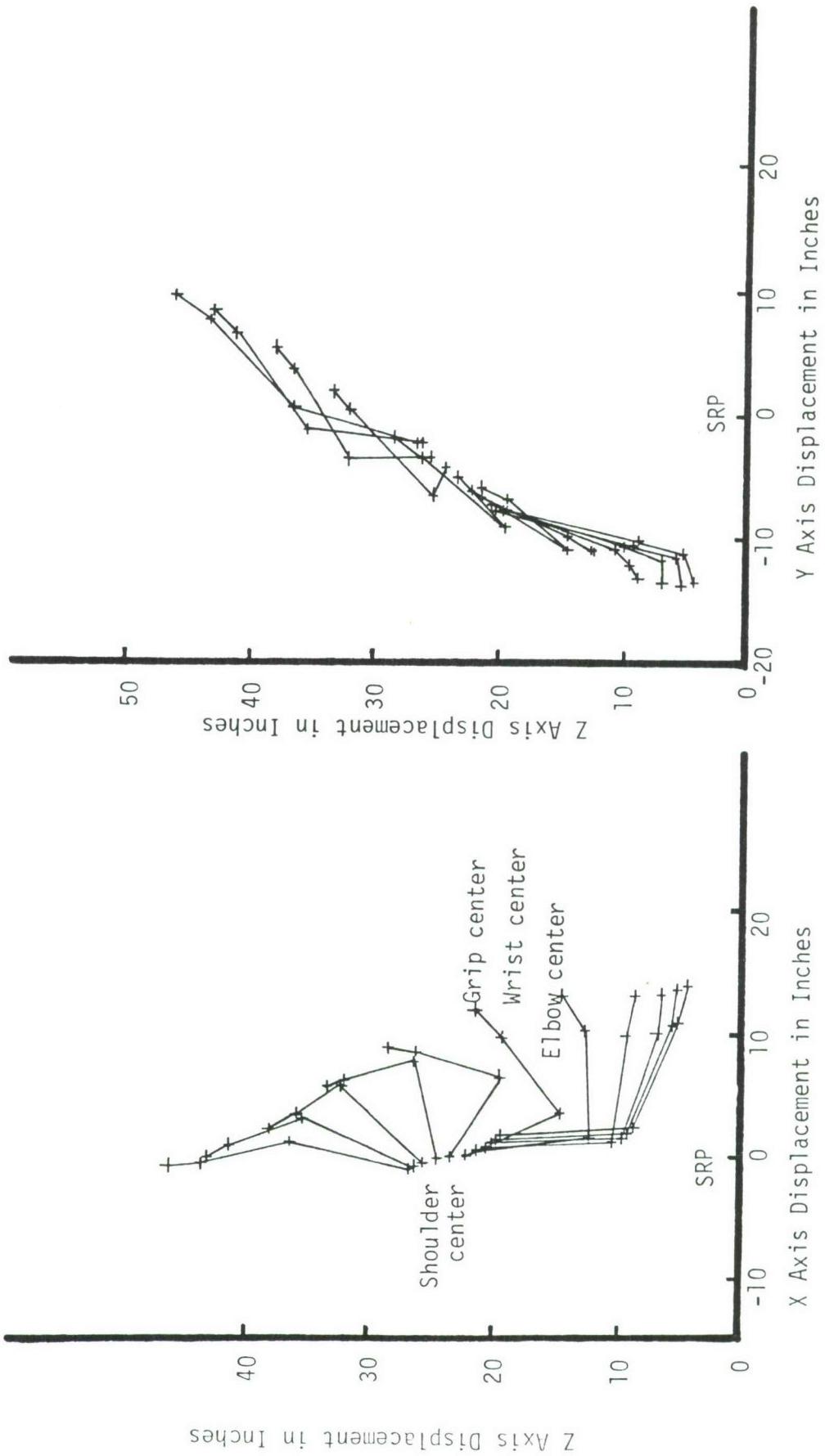


Figure 21. Stick diagrams of right upper extremity (shoulder, elbow, wrist, and grip centers) at time intervals of 1/10th of average total movement time. Movement made from overhead controller to side arm controller at 13° back angle -- average for 7 subjects.

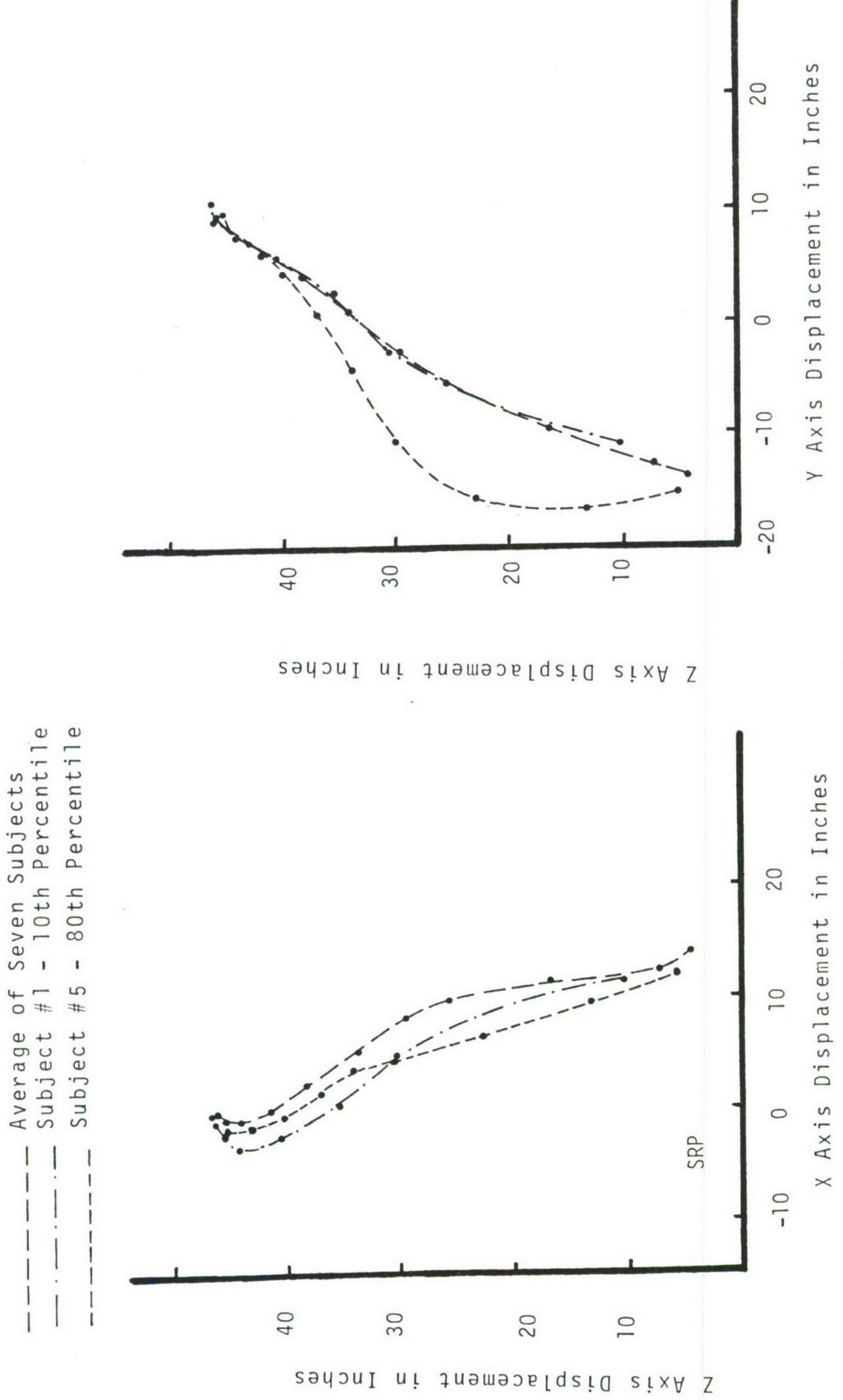


Fig. 22. Right Hand Grip Center Paths of Movement from Side Arm Controller to Overhead Controller at 13° Back Angle for Subjects 1 and 5 vs. the Average Path for all Seven Subjects.

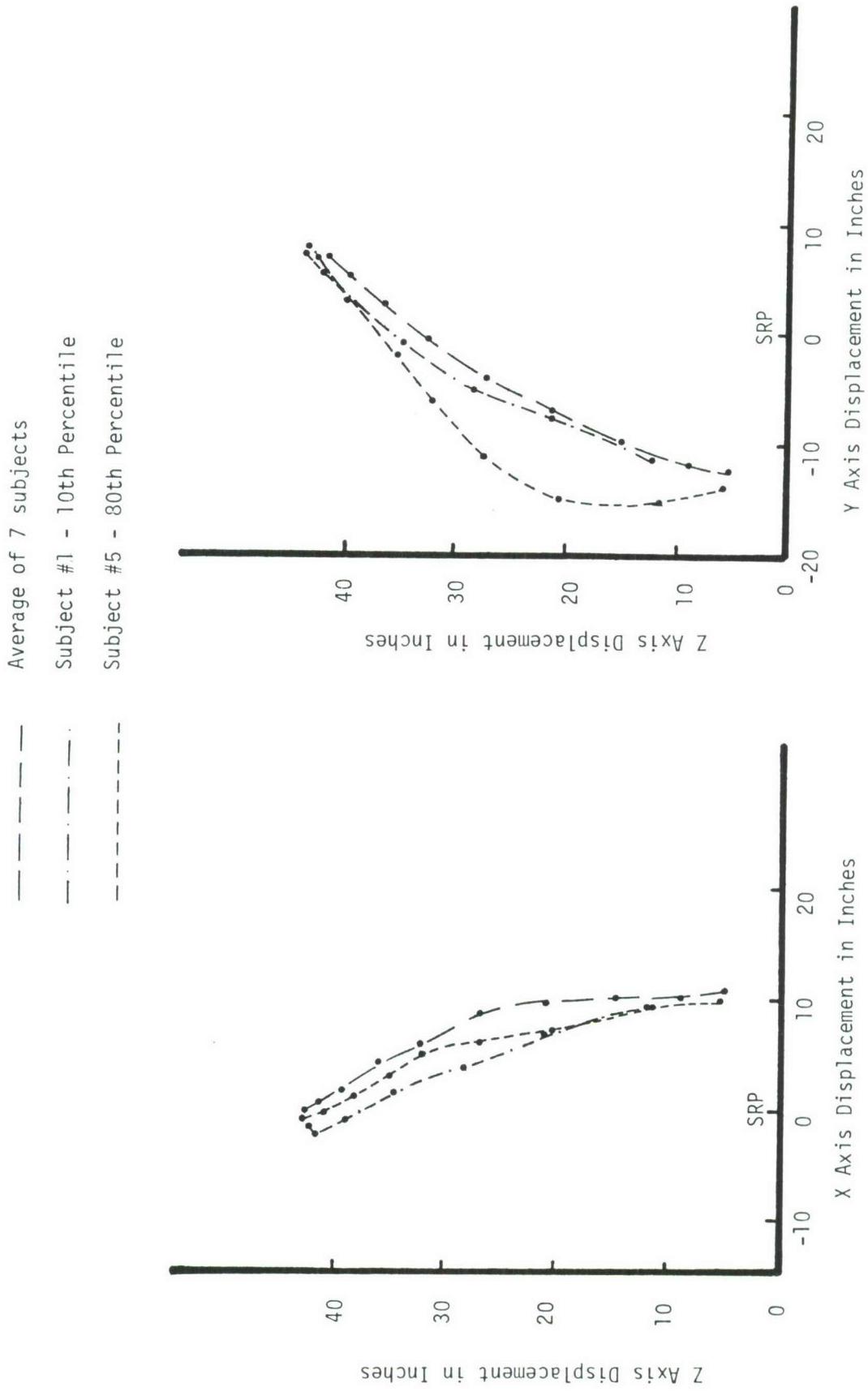


Figure 23. Right wrist center path of movement from side arm controller to overhead controller at 13° back angle for subject #1 and 5 vs. the average path for all 7 subjects.

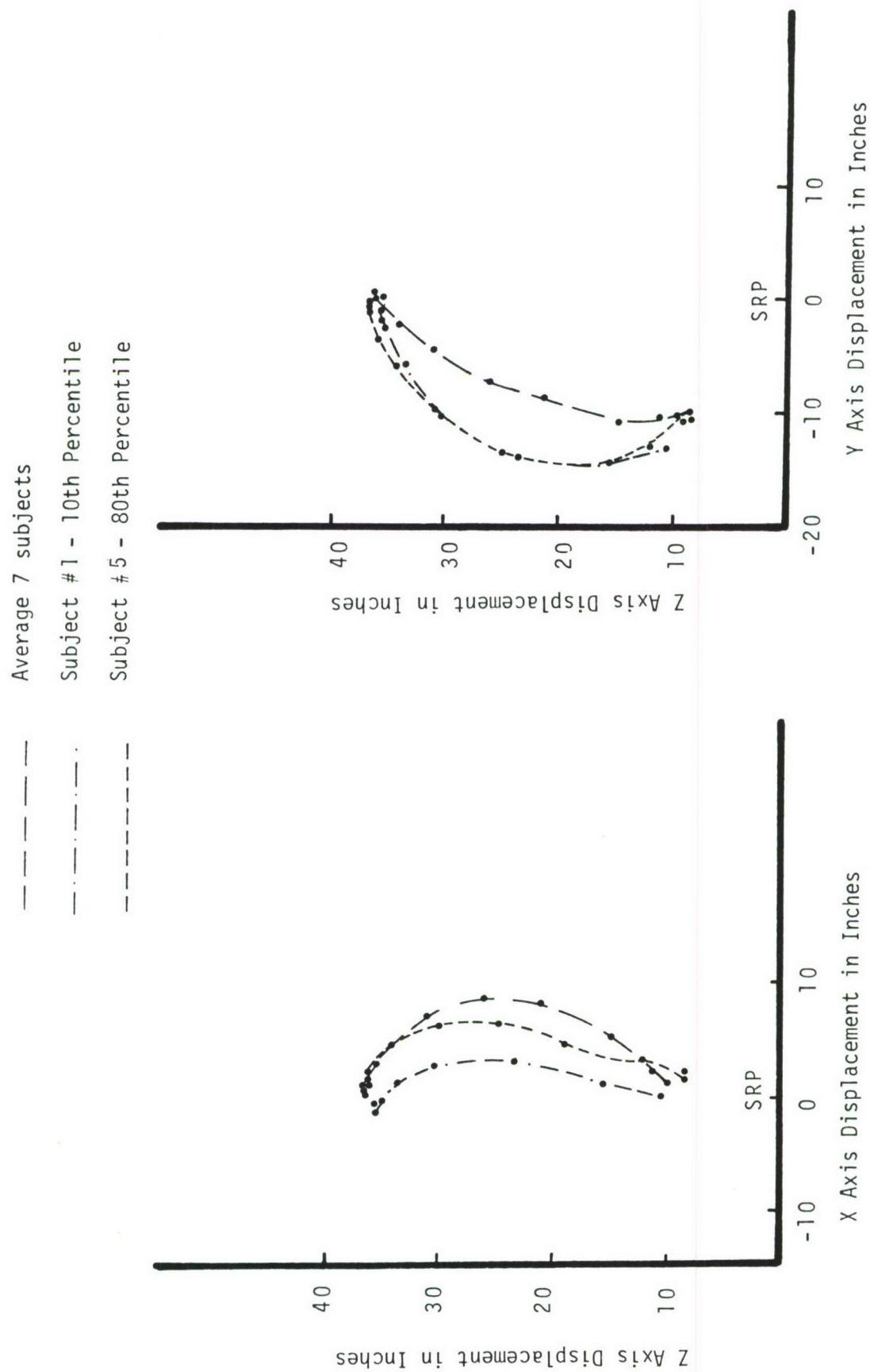


Figure 24. Right elbow joint center paths of movement from side arm controller to overhead controller at 13° back angle for subjects 1 and 5 vs. the average path for all 7 subjects.

•—• Average of 7 subjects
 +---+ Subject # 5- 80th Percentile
 ○—○ Subject # 1- 10th Percentile

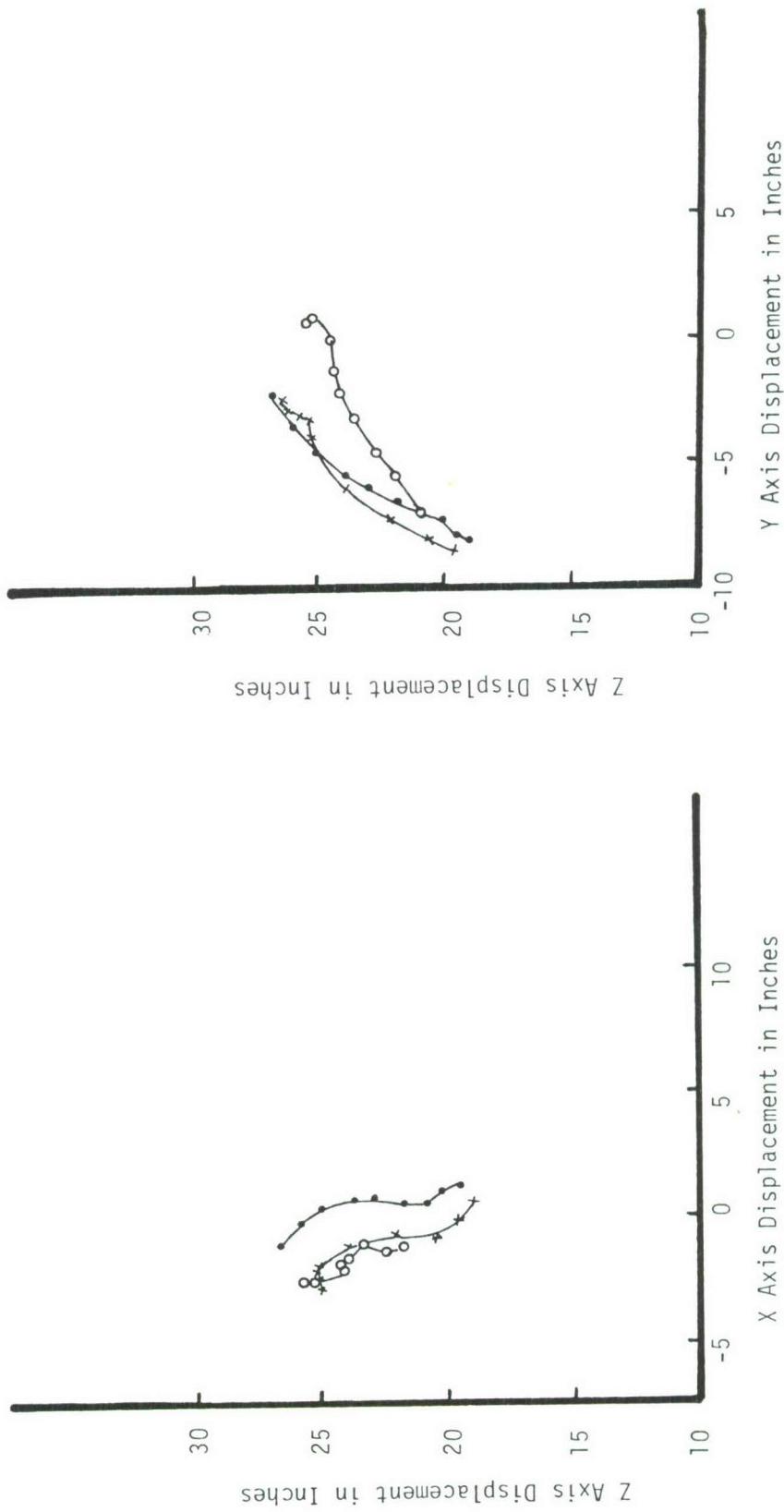


Figure 25. Right shoulder joint center path of movement from side arm controller to overhead controller at 13° back angle for subjects #1 and 5 vs. the average path for all 7 subjects.

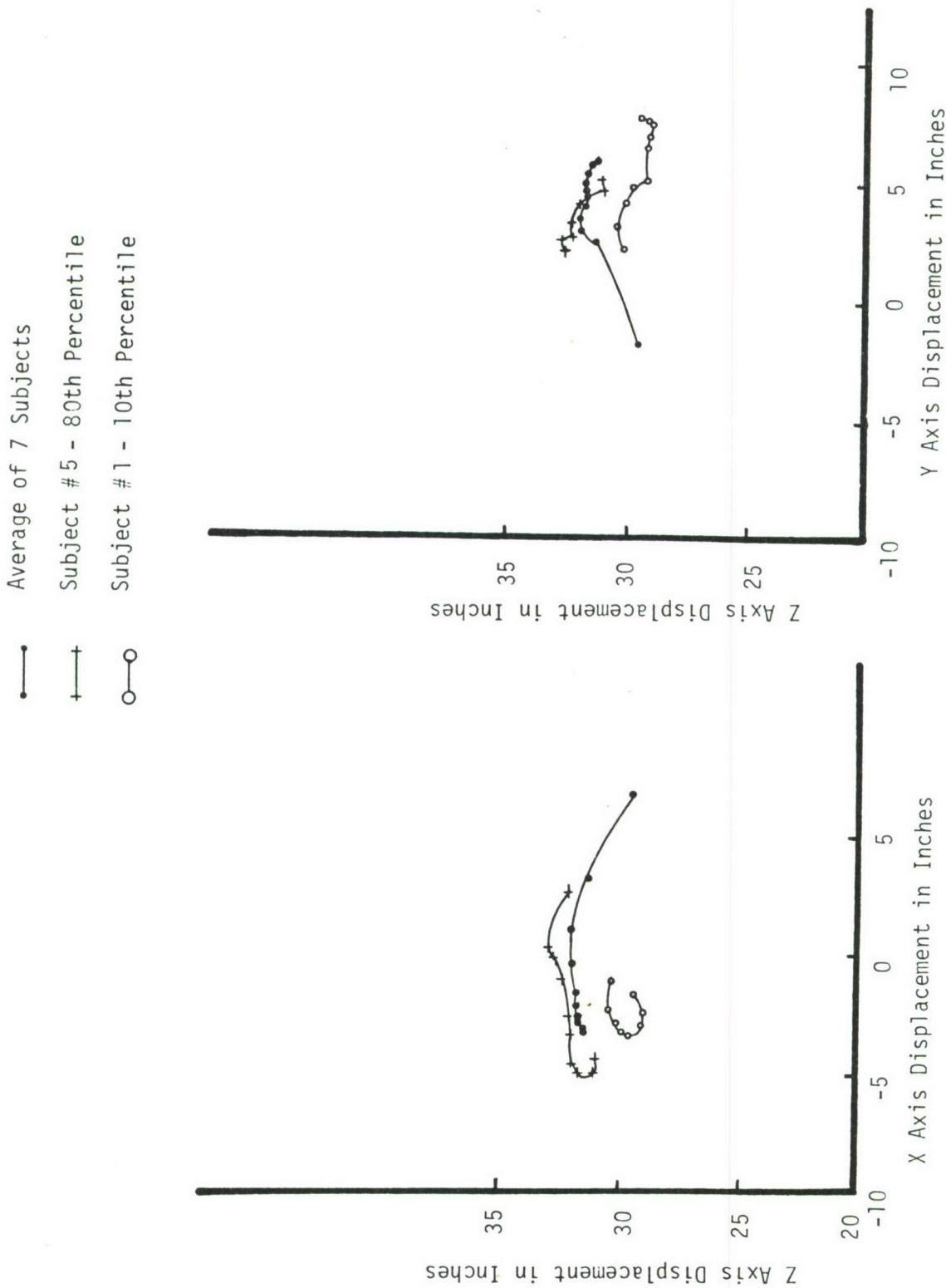


Figure 26. Path of movement of mansion when right hand moves from side arm controller to overhead controller at 13° back angle.

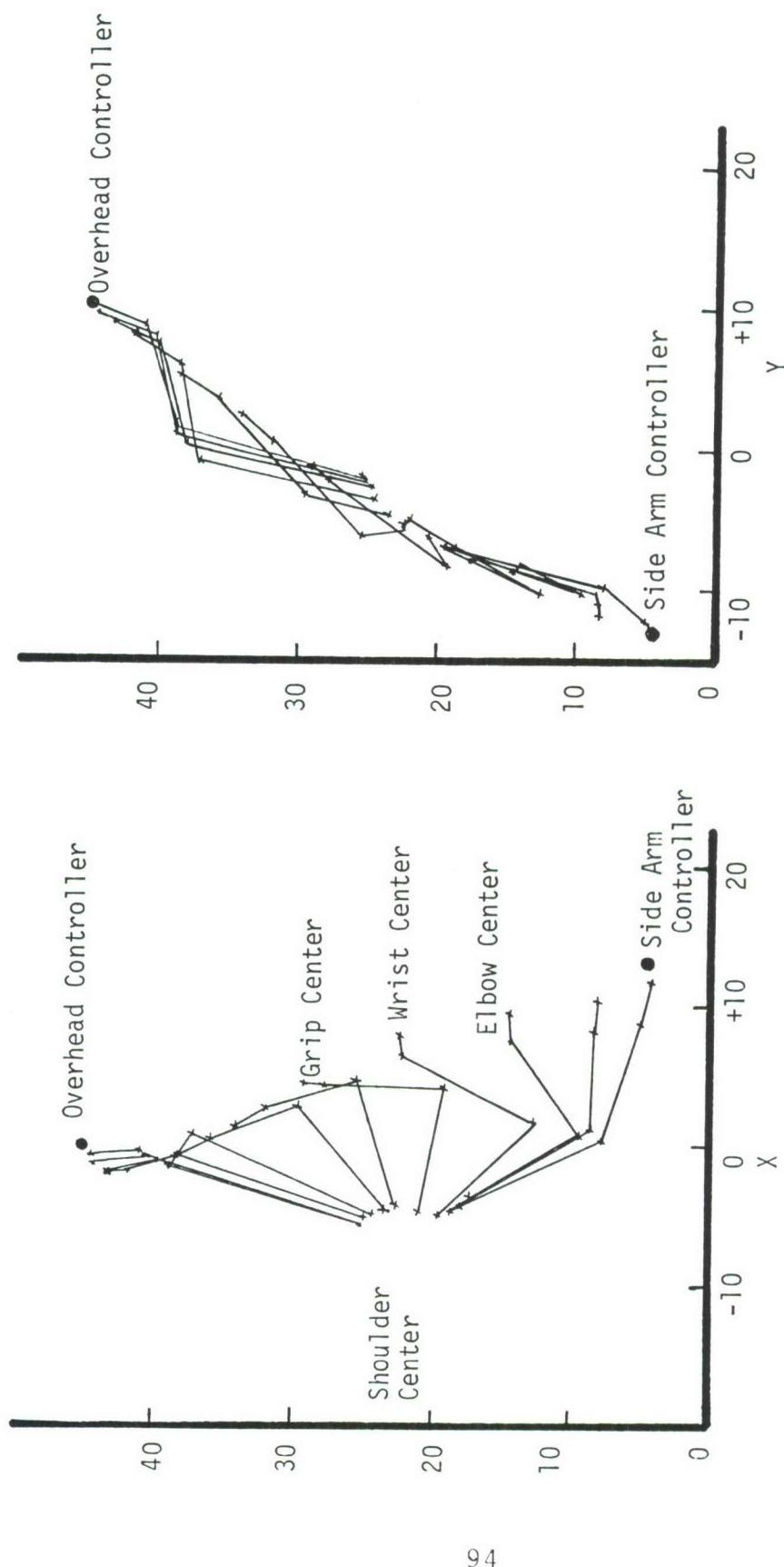


Figure 27. Stick diagram describing forward movement from side arm controller to overhead controller at 30° back angle-- average for 7 subjects.

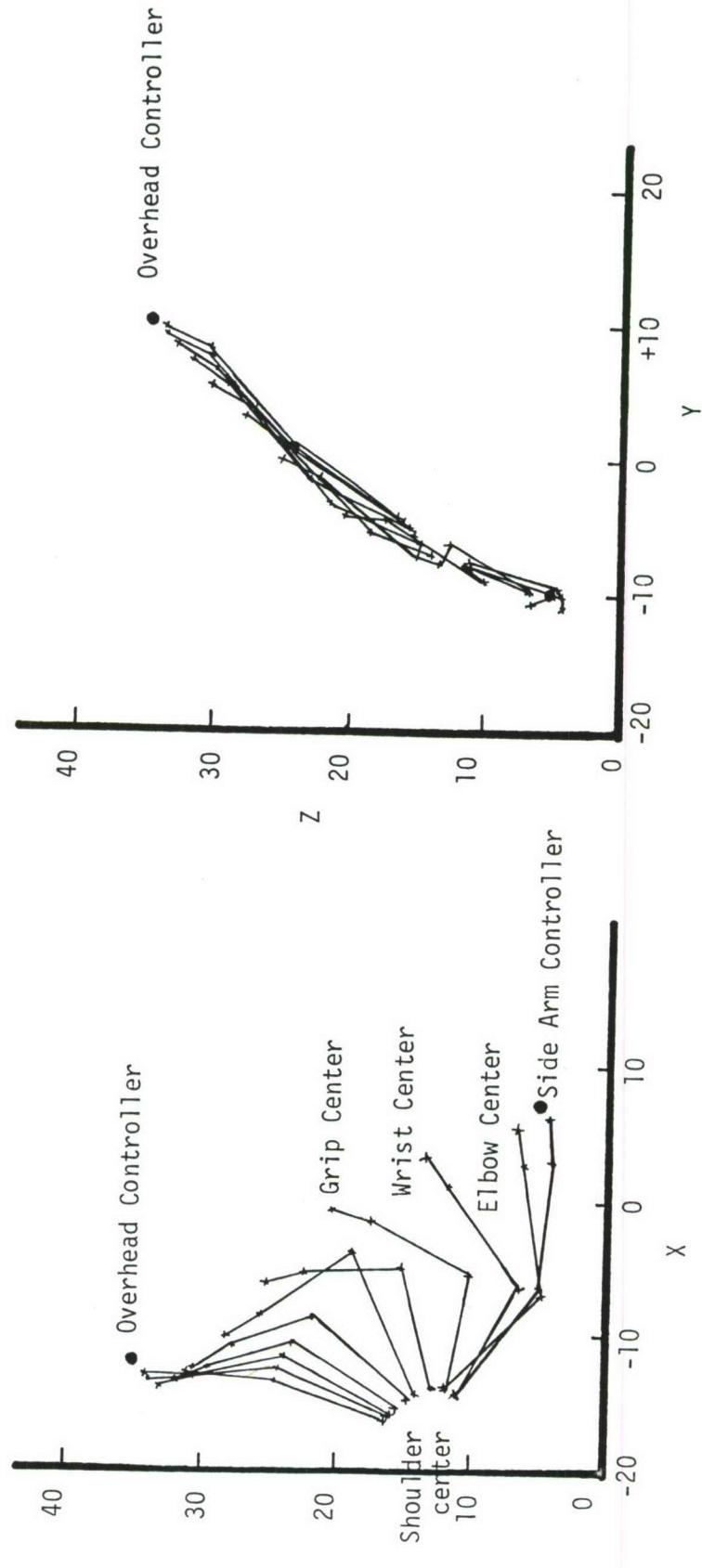


Figure 28. Stick diagrams describing forward movement from side arm controller to overhead controller at 65° back angle -- average for 7 subjects.

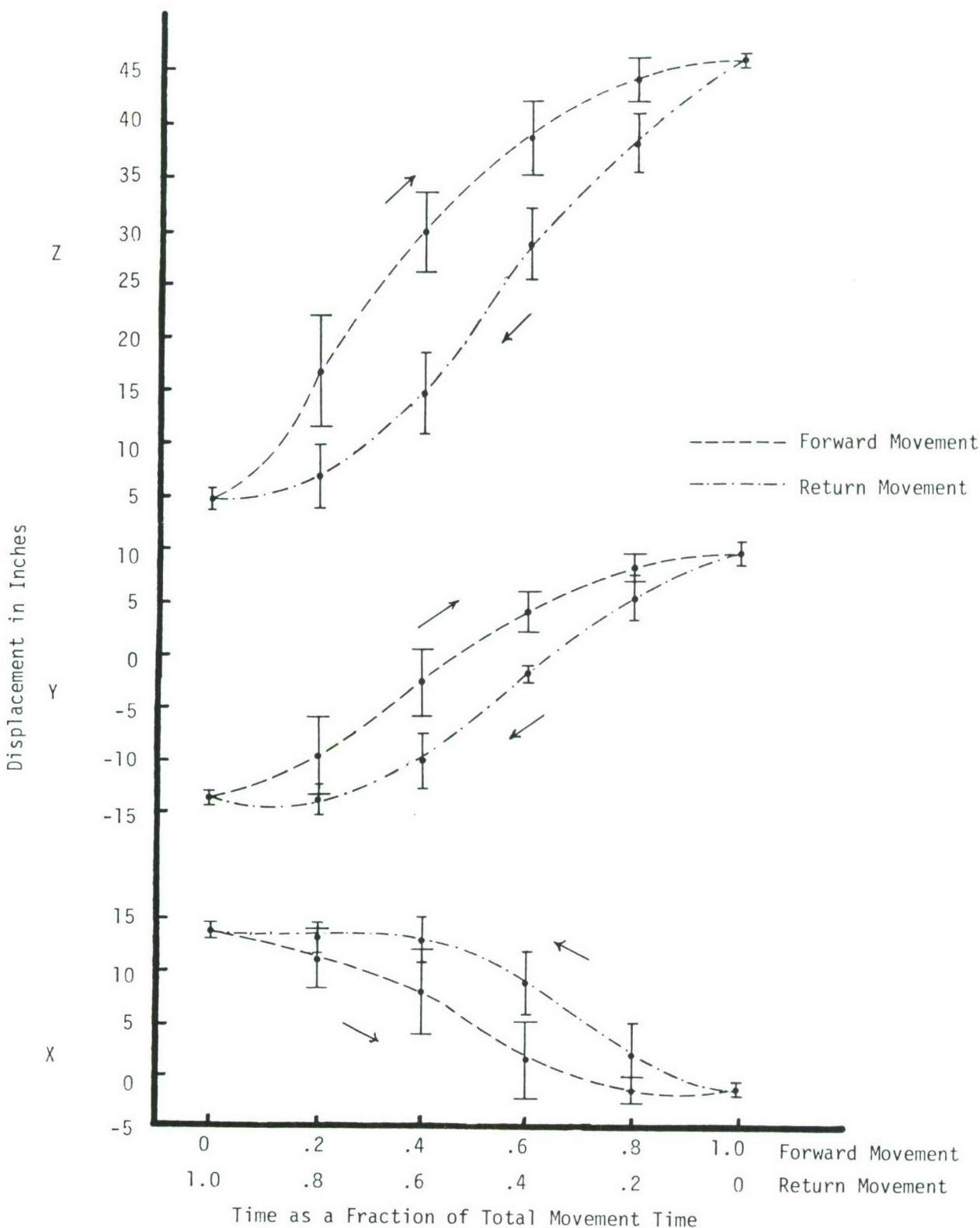


Figure 29. Displacement time relationship for right hand grip center for forward and return movement starting from side arm controller to overhead controller at 13° back angle

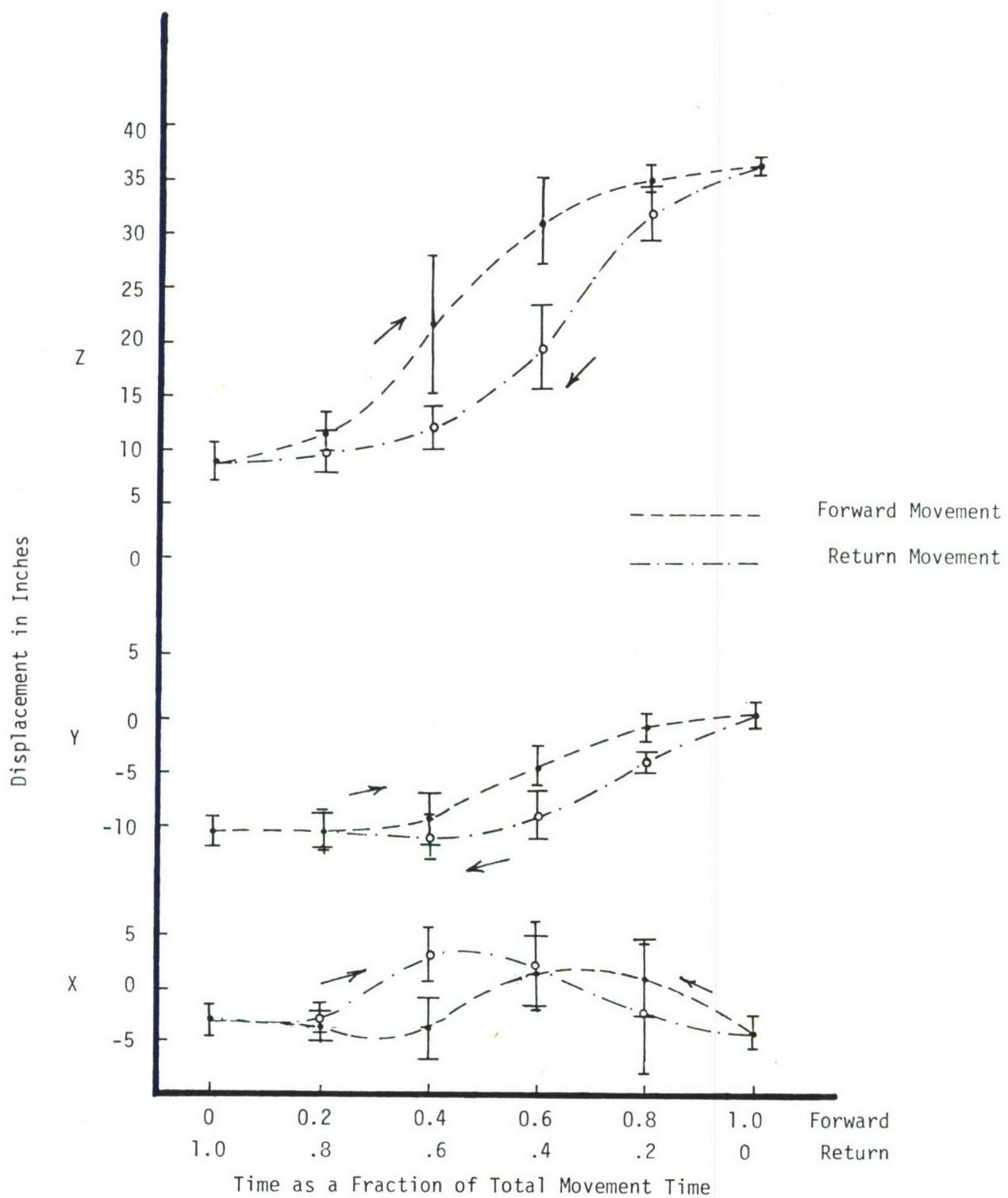


Figure 30. Displacement-time relationship for right elbow joint center for forward and return movement starting from side arm controller to overhead controller at 13° back angle.

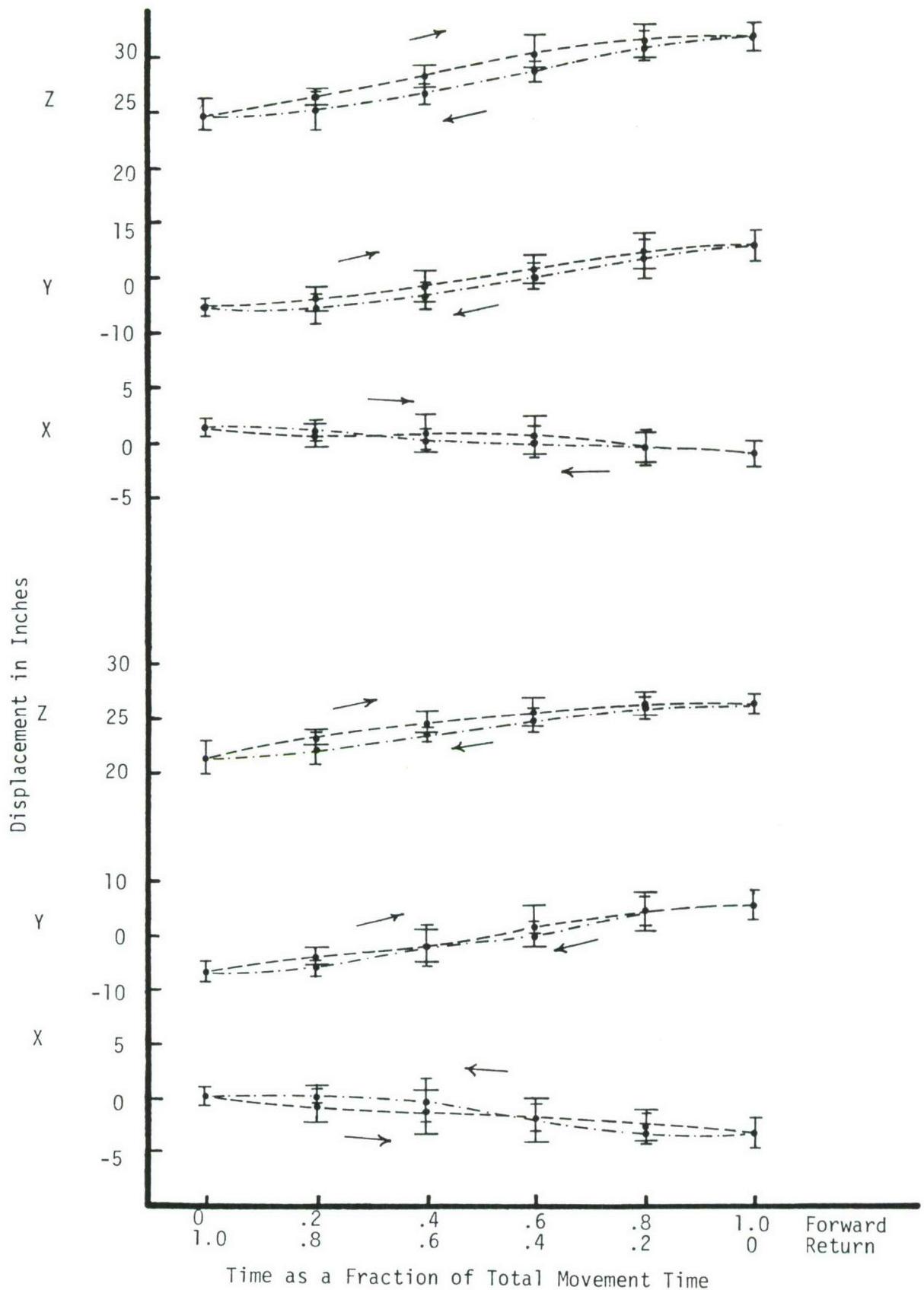


Fig. 31 Displacement time relationship for right shoulder joint center (top) and right acromion (bottom) for forward and return movement starting from side arm controller to overhead controller at 13° back angle

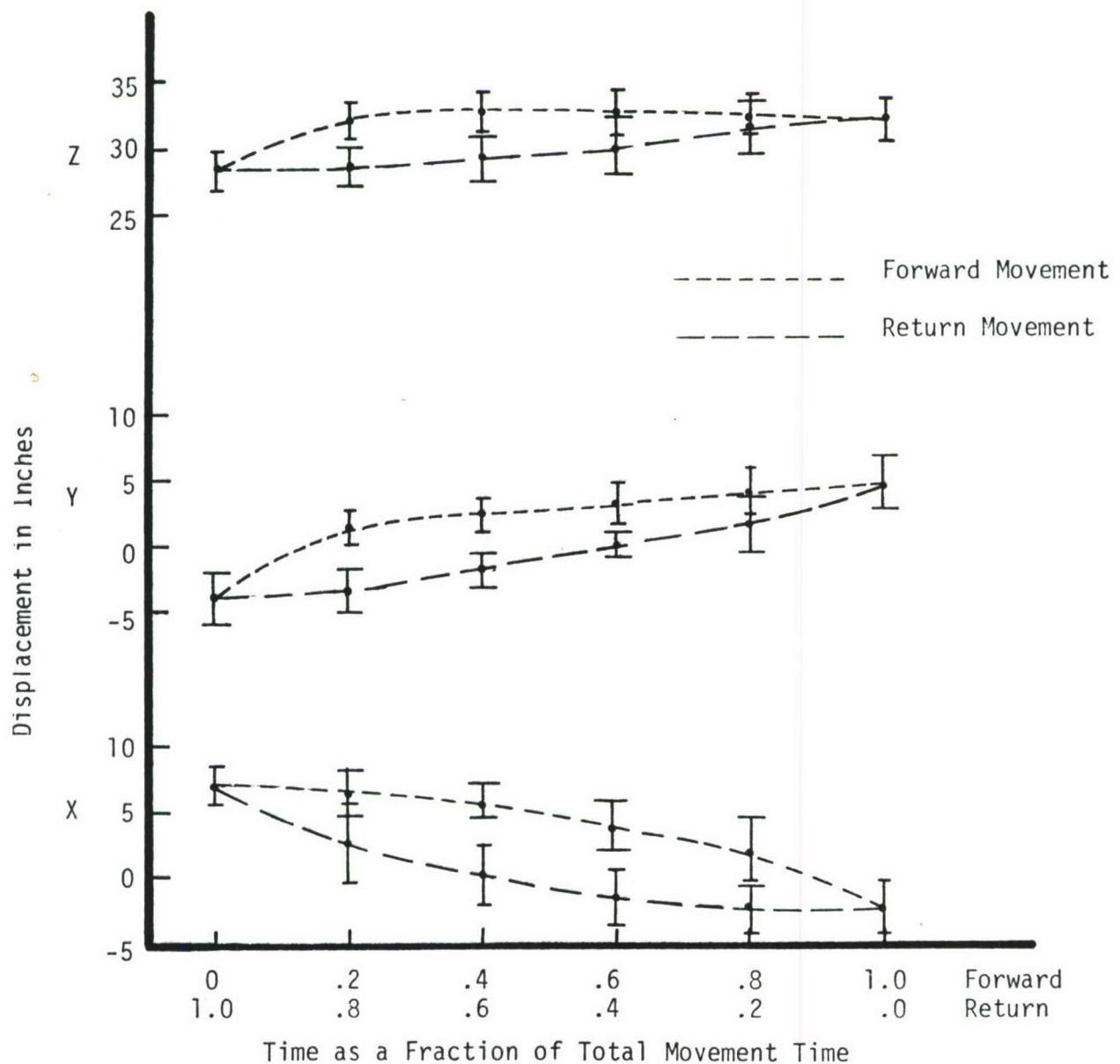


Figure 32. Displacement-time relationship for nasion for forward and return movement starting from side arm controller to overhead controller at 13° back angle

controller. (This is the same movement presented in the earlier section involving Figures 12 through 26.)

Grip center (Figure 29). The grip center moved about 43 inches along z axis, 23 inches along y axis and 15 inches along x axis. Thus, displacement along z axis was the major component. This fact is suspected to contribute to the wider difference between the profiles of forward and return movements along z axis than the same along the other two axes. Additionally the larger variations from the average path along z axis than the other two axes can also be partly attributed to this. A second factor believed to be contributing to the later effect is the variations in segment lengths among the subjects.

The larger variations over the middle part of the displacement curves than the end parts are due to the fact that nearer a controller, the movement becomes more controlled and slower in speed.

The rate of displacement on leaving a controller is seen to be higher than that when approaching a control. Rate of displacement over the middle part of the movement is observed to be significantly higher than the same at either ends.

Elbow center (Figure 30). Elbow displacement profiles along z and y axes look similar in pattern to those of grip center. However, x axis displacement profile is very different. This is because in order to reach for the overhead controller, at a height of more than 47 inches above seat level, the

initially semiflexed elbow has to extend out (forward) while being raised upwards. And then, the fact that the overhead controller is at 0 inches from SRP along x axis (forward), makes it necessary for the elbow to move backwards while maintaining an extended position. Thus an approximately bell-shaped curve is generated for the profile. The return movement profile is similar to forward profile except that it is displaced (phase shift) along the time axis. This is because releasing and moving away from the overhead controller is achieved relatively faster than moving towards and grasping the same controller.

Shoulder center (Figure 31). The shoulder joint is one of the most complex joints in the human skeletal system, both anatomically and kinesiologically. The joint itself is really composed of three different joints (Dempster, 1955). Hence, any attempt in analyzing and isolating the various joint movements can be complicated. For the purpose of this study, the gleno-humeral joint center was chosen as the joint center representing shoulder movement. Additionally acromion was chosen as a reference landmark to be used in following the paths of movement of shoulder joint. Hence, Figure 31 contains the displacement profiles of the right acromion and right shoulder center.

A point to bear in mind here is that the apparent final movement of the shoulder joint center of acromion is the resultant of the movement necessary to effect the distal

extremity motions plus any displacements of the trunk and the neck found necessary from visual and comfort points of view. It can be observed that while at the start of the forward motion the acromion is above the shoulder center along z axis (as can be reasonably expected) at the end of the movement the shoulder center is located slightly above the acromion. This is partly due to the fact that as the upper extremity moves upwards, acromion moves slightly backwards and drops down somewhat in order to facilitate the upward swing of the humeral head. Also there is an artifact introduced as the surface marker for acromion slides downwards due to stretching of the skin over the area under consideration.

Nasion/head movement (Figure 32). The head displacement profiles have to be studied carefully bearing in mind that the first part of the movement was never recorded as it preceeded the hand movement activating the recording system.

During the forward movement of the hand, head moves upwards a little bit only initially, but continues to tilt to the left and backwards till the overhead controller is sighted and grasped by the moving hand. A very similar pattern but in reverse can be noticed during return movement. The head drops down only initially but continues to tilt to the right and forward till the hand movement is completed.

Statistical summaries of displacement-time relationship.
Complete statistical summaries for each body landmark are given

in Appendix B. In addition, several displacement-time relationships are graphed for quick reference (Figure A-3 through Figure A-22).

APPENDIX A

COMPUTER PROGRAM DOCUMENTATION

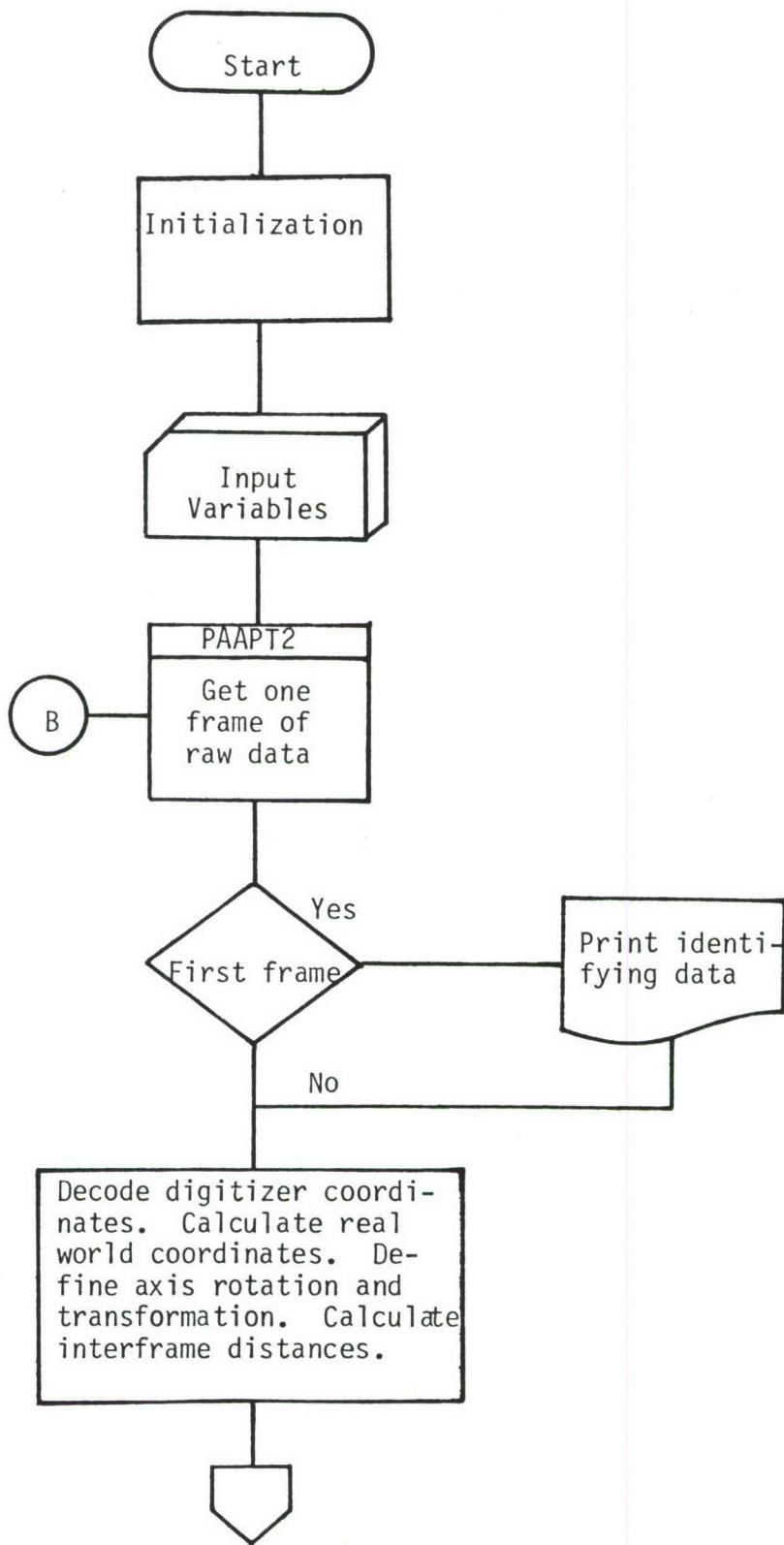


Fig. A-1 Flow Chart for Computer Program employed in obtaining real-world coordinates from digitizer data

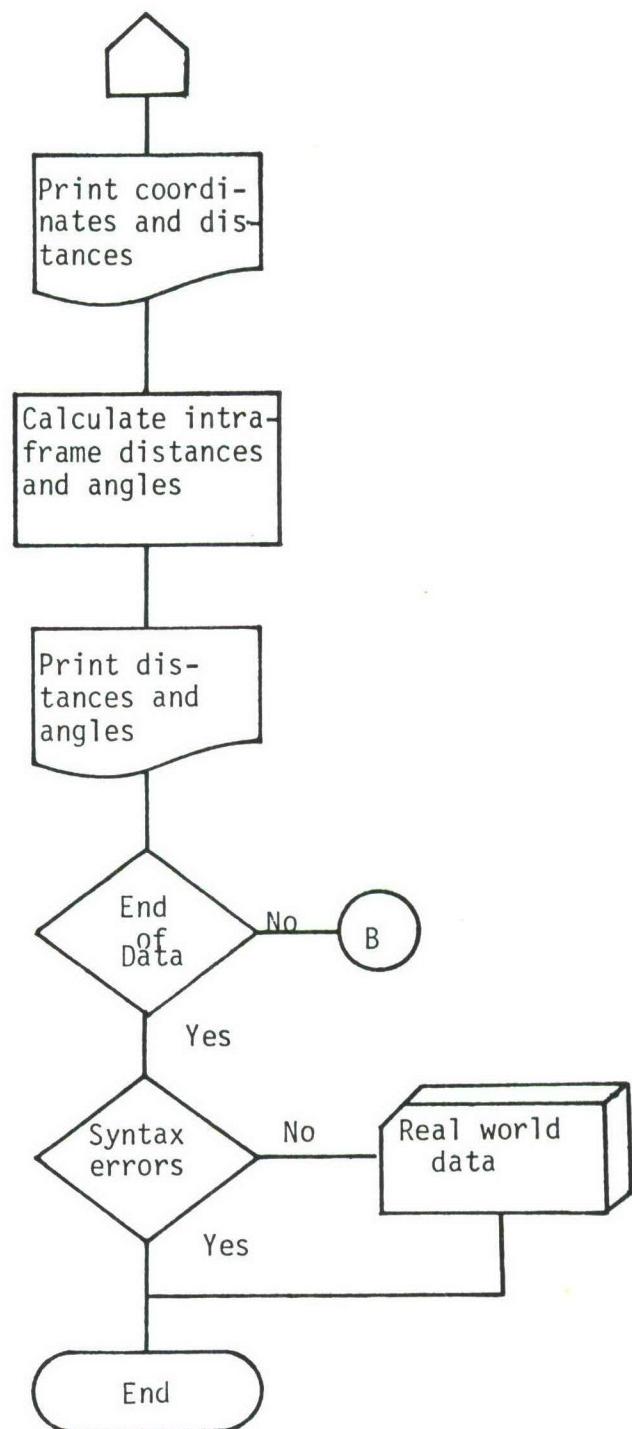


Fig. A-1 (Continued)

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      REAL XYZ(3,30),PRYZ(3,30)
      REAL CD(30)                         0C010000
      0C02                                     0002C000
      0C03                                     00040000
      0C04                                     00050000
      0C05                                     00055000
      0C06                                     00056000
      0C07                                     00057000
      0C08                                     00065000
      0C09                                     00069000
      0C10                                     00070000
      0C11                                     00080000
      0C12                                     00090000
      0C13                                     00100000
      0C14                                     00110000
      0C15                                     00120000
      0C16                                     00130000
      0C17                                     00140000
      0C18                                     00150000
      0C19                                     00160000
      0C20                                     00170000
      0C21                                     00180000
      0C22                                     00190000
      0C23                                     00200000
      0C24                                     00210000
      0C25                                     00220000
      0C26                                     00230000
      0C27                                     00240000
      0C28                                     00250000
      0C29                                     00260000
      0C30                                     00270000
      0C31                                     00280000
      0C32                                     00290000
      0C33                                     00300000
      0C34                                     00310000
      0C35                                     00320000
      0C36                                     00322000
      0C37                                     00330000
      0C38                                     00340000
      0C39                                     00350000
      0C40                                     00360000
      0C41                                     00370000
      0C42                                     00380000
      0C43                                     00390000
      0C44                                     00400000
      0C45                                     00410000

      C INITIALIZATION AND VALIDATE
      C
      READ(5,1001) F1,D1,F2,D2,SC,NP,NS,RX,RY,RZ,TX,TY,TZ,TOL
      WRITE(6,1002) F1,C1,F2,D2,SC,NP,NS,RX,RY,RZ,TX,TY,TZ,TOL
      IF(F1.GT.0.0.AND.F1.LT.100.0) GO TO 100
      WRITE(6,2001) F1
      F1=1.0
      100 IF(D1.GT.0.0.AND.D1.LT.1000.0) GO TO 110
      WRITE(6,2002) D1
      D1=1.0
      110 IF(F2.GT.C*0.0.AND.F2.LT.1000.0) GO TO 120
      WRITE(6,2003) F2
      F2=1.0
      120 IF(D2.GT.0.0.AND.D2.LT.1000.0) GO TO 125
      WRITE(6,2010) NP
      NP=30
      125 CONTINUE
      130 IF(NP.GT.1.AND.NP.LT.31) GO TO 140
      WRITE(6,2010) NP
      140 IF(NS.GE.1.AND.NS.LT.41) GO TO 141
      WRITE(6,2006) NS
      NS=40
      141 READ(5,1007) NT,(TARGET(I),I=1,NT)
      WRITE(6,1008)
      WRITE(6,1014)-(NT,TARGET(I),I=1,NT)
      142 IF(NA.LE.2) GO TO 150
      C.....READ PUNCH FLAG
      C      0 = NO PUNCH
      C      1 = PUNCH OF REAL WCPFD DATA FOR PLOT
      C.....READ THETA
      C      WHERE THETA IS THE ANGLE OF AXES ROTATION IN RADIANS
      C
      READ(5,1013) IPNC,I,THETA,NA,ND
      WRITE(6,1022) THETA,NA,ND
      COSTH=COS(THETA)
      SINH=SIN(THETA)
      IF(NA.GE.C*0.0.AND.NA.LT.201) GO TO 142
      WRITE(6,2014) NA
      NA=0
      142 IF(NA.LE.2) GO TO 150
      143 READ(5,1017) (IA1(I),IA2(I),I=1,NA)
      WRITE(6,1023)
      CO 144 I=1,NA
      WRITE(6,1015) I,IA1(I),IA2(I)
      IF(IA1(I).GT.0.0.AND.IA1(I).LE.NP) GO TO 143

```



```

      Y2(1)=-1          01033500
  0101      Y3(1)=-1          01034000
  0102      Y4(1)=-1          01034500
  0103      PFLG(1)=0          01035000
  0104      ICNT(1)=0          01035100
  0105      ICNT(1)=0          01035110
  0106      SFIG(1)=0          01040000
  0107      CONTINUE          01040500
  0108      IC=0              01050000
      C.....CALL PAAPT2 - DATA TAKING ROUTINE
      C
  0109      CALL PAAPT2NP,ISUB,TSEQ,X1,Y1,X2,Y2,X3,Y3,X4,Y4,MOVE,IANG,SFLG,
      X      MAX,IECNT)          01052000
      IF (ISUB.EQ.-1) GO TO 400          01053000
  0110      IF (IPNCHE.EQ.1.AND.ISEQ.EQ.1) WRITE (2) ISU3,MOVE,ISEQ,IANG
  0111      IF (ISUB.EQ.ISU3) GO TO 210          01054000
  0112      IF (LINE.LT.55) GO TO 204          01060000
  0113      LINE=0
  0114      LINE=0
      0115      WRITE(6,10C3)
  0116      204     LINE=LINE+1          01110000
      WRITE(6,17J3) ISUB          01120000
  0117      JSUB=ISUB          01130000
  0118      GO TO 220          01140000
  0119      217    IF (JMOVE.EQ.400) GO TO 205          01141000
      C.....PRINT MOTION NUMBER
      C.....COMPUTE DIRECTION OF MOTION
      C
  0121      220    CONTINUE
      IMOVE=MOVE1000
  0122      IF (LINE.EQ.LT.55) GO TO 206          01141200
  0123      LINE=0
  0124      206     LINE=LINE+1          01141300
      WRITE (6,1009)
  0125      206     LINE=LINE+1          01141400
  0126      WRITE (6,1009)
  0127      206     LINE=LINE+1          01141500
      WRITE (6,1015) MOVE
      JMOVE=MOVE
  0128      GO TO 207          01141600
  0129      205     IF (JSF0.EQ.1)SEQ) GO TO 221          01141650
  0130      IF (MAX.NE.ISEQ) GO TO 207          01142000
  0131      IF (LINE.EQ.IANG) GO TO 207          01143000
  0132      IF (LINE.LT.55) GO TO 201          01144000
  0133      LINE=0
      WRITE (6,1009)
  0134      215     LINE=LINE+1          01145000
  0135      WRITE (6,1023) ISEQ
  0136      207     IF (LINE.LT.55) GO TO 215          01150000
  0137      207     LINE=LINE+1          01151000
  0138      LINE=0
  0139      WRITE (6,1009)
  0140      215     LINE=LINE+1          01152000
  0141      WRITE (6,1024) ISEQ
  0142      JSEQ=ISEQ
  0143      221    IF (IANG.FEQ.IANG) GO TO 223          01153000
  0144      IF (LINE.LT.55) GO TO 222          01154000
  0145      LINE=LINE+1          01155000
  0146      WRITE (6,1009)
  0147      222    LINE=LINE+1          01156000
  0148      IANG=IANG/LDCC          01160000
      0149

```



```

C      1C,12= 26
C      11,13= 27
C
0186      IF ((LT=.24) GO TO 219
0187      IF ((LT=.26) L1=1/4+MOD(1,4)
0188      IF ((LT=.25) L1=1/4+MCC(1,4)+2
0189      JJ=L1(L1+2
0190      IF (PFLG((L1)) .EQ.1. OR. PFLG((JJ)) .EQ.1) GO TO 250
0191      PFLG((L1))=0
0192      DO 215 K=1,3
0193      215   XY2(K,I)=(XY2(K,111)+XY2(K,JJJ))/2
0194      IF ((LINE,LT,55) GO TO 213
0195      LINE=J
0196      WRITE (6,1029)
0197      213   LINE=LINE+
0198      WRITE (5,1032) 1,(XYZ(K,I),K=1,3)
0199      IC=IC+1
0200      ICNT(IC)=1
0201      GO TO 238
C      PROCESS COORDINATES FOR POINTS 1 - 23
C      218 IF (PFLG((I)).EQ.1) GO TO 250
0202
C
C      ***. DEFINE TRANSFORMATION
C
C      IF IMOVE=1 OR IMOVE=2
C      TX1 IS ADDED TO X-COORDINATE, AFTER DIGITIZER X-COORDINATE
C      IS INVERSED
C      TX1 IS ADDED TO Y-COORDINATE
C
C
0203      IX1(I)=-IX1(I)
C      C.....X11 = LEFT SIDE X COORDINATE
C      X11=FLOAT(IX1(I))+SC-O-CO4+TX1
0204      C.....Y11 = LEFT SIDE Z COORDINATE
C      Y11=FLOAT(IY1(I))+SC-O-CO4+TY1
0205      C.....X12 = RIGHT SIDE X COORDINATE
C      X12=FLOAT(IX2(I))+SC-O-CO4+TX2
0206      C.....Y12 = RIGHT SIDE Z COORDINATE
C      Y12=FLOAT(IY2(I))+SC-O-CO4+TY2
0207      C.....XV2(I,1)=X11*(F2*(U1*X12+D2))/(F1*X2*X11*X12) + RX
0208      XV2(I,1)=X12*(F1*(C2*X11*D1))/(F1*X2*X11*X12) + RY
0209      C.....Z1=Y11*(F1*X2*X11*D1)/(F1*X2*X11*X12) + RZ
0210      Z1=Y12*(F2*(U1-X12*D2))/(F1*X2*X11*X12) + RZ
0211      Z2=Y12*(F2*(U1-X12*D2))/(F1*X2*X11*X12) + RZ
0212      XYZ(3,I)=(Z1+Z2)/2.0
C
C      ***. ROTATE AXIS' THETA' FADIANS
C
C      XTE10=XYZ(1,I)*COSTH-XYZ(2,I)*SINTH
C      XYZ(2,I)=XYZ(1,I)*SINTH+XYZ(2,I)*COSTH
C      XYZ(1,I)=XTEMP
C
C      CALCULATE INTERFRAME DISTANCES
C
0213      Dx=0.0

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      2217      RY=0.2
      0218      DZ=0.0
      0219      IF(LISEQ.EQ.1) GO TO 232
      0220      IF (PXYZ(1,1).EQ.0..AND.PXYZ(2,1).EQ.C..AND.PXYZ(3,1).EQ.0.) 
      0221      X      GO T J 232
      2222      DX=ARS(PXYZ(1,1)-XYZ(1,1))
      0223      DY=AAS(PXYZ(2,1)-XYZ(2,1))
      0224      DZ=SQR(DX**2+DY**2+DZ**2)
      0225      DD=SQRT(DX**2+DY**2+DZ**2)
      0226      CD(1)=CD(1)+DD
      0227      DO 233 J=1,3
      0228      233  PXYZ(J,I)=XYZ(J,I)
      0229      IF(LINE.LT.55) GO TO 235
      0230      LINE=0
      0231      WRITE(6,10J9)
      0232      235  LINE=LINE+1
      0233      IF ((I1(1)*LT.0) IX1(1)=10000C+IX1(1)
      0234      IF ((I1(1)*LT.0) IY1(1)=10000C+IY1(1)
      0235      IF ((I2(1)*LT.0) IX2(1)=10000C+IX2(1)
      0236      IF ((I2(1)*LT.0) IY2(1)=10000C+IY2(1)
      0237      IC=IC+1
      0238      ICH(IC)=1
      0239      WRITE(6,10J5), (XYZ(J,1),J=1,3),Z1,Z2,IX1(1),IY1(1),IX2(1),
      X      *K, Y, U, DC(1)
      0240      IF (ABS(Z1-Z2).GT.TCL) WRITE(6,2009)
      C      FLAG INCORRECT COORDINATES
      C      IF IPNC=1, PUNCH REAL WORLD COORDINATES IN GROUPS OF FOUR PER
      C      CARD.
      0241      238  CONTINUE
      C     ...FLAG ESTIMATED COORDINATES
      0242      IF (SFL(1).EQ.0) GO TO 250
      0243      IF (SFL(1).EQ.1) WRITE (6,1230)
      0244      IF (SFL(1).EQ.2) WRITE (6,1031)
      0245      250  CONTINUE
      C      IF IPCH=1, PUNCH ANY REMAINING DATA
      C      IF (IPNC.EQ.0) GO TO 255
      0246      WRITE (2) IC,ICH(1),(XYZ(J,ICH(1)),J=1,3),I=1,IC)
      0247      C      CALCULATE INTPAFAME DISTANCES
      C      255  CONTINUE
      C      IF (NDEQ.0) GO TO 260
      C250      DC 270 I=1,N0
      0251      J=ID1(1)
      0252      K=ID2(1)
      0253      IF (PFLG(J).EQ.1.DF.*PFLG(K).EQ.1) GO TO 270
      0254      X      D=SQRT(D)
      0255      IF (I1(1).LT.-C(.1)) D=J.C
      0256      IF (I1(1).LT.-55) GO TO 260
      0257      INT(1,1,J)-XYZ(1,K))*Z+(XYZ(2,J)-XYZ(2,K))*Z*
      X      (XYZ(3,J)-XYZ(3,K))*Z
      0258      LIM=59
      0259

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```
0260      260 LINE=LINE+1
0261      WRITE(5,1012) J,K,C
0262      270 CONTINUE
C      CALCULATE ANGULAR DISPLACEMENTS
C
0263      280 IF(NATEQ.0.) GO TO 290
0264      DO 290 I=1,NA
0265      J=IA1(I)
0266      K=IA2(I)
0267      IF (PFLG(J).EQ.1) OR. PFLG(K).EQ.1) GO TO 290
0268      DIFX=XYZ(1,K)-XYZ(1,J)
0269      DIFY=XYZ(2,K)-XYZ(2,J)
0270      DIFZ=XYZ(3,K)-XYZ(3,J)
0271      DDXFEX*DIFX**2+CIFZ**2
0272      U=SQR(D)
0273      DX=G.0
0274      DY=0.0
0275      UZ=0.0
0276      IF (A350).LT.0.1) GO TO 281
0277      DX=ARCOS(DIFX/D)*57.29577958
0278      DY=ARCCOS(DIFY/D)*57.29577958
0279      DZ=ARCS(DIFZ/D)*57.29577953
0280      281  IF(LINE.LT.55) GO TO 282
0281      WRITE(5,1059)
0282      LINE=0
0283      262  LINE=LINE+1
0284      WRITE(5,1019) J,K,DX,DY,DZ
0285      290  CONTINUE
0286      GC TC 200
0287      400  IF (IPICH.EQ.0) GO TO 500
0288      IF (IECT.NE.0) GO TO 500
0289      REWIND 2
0290      READ (2,END=500) ISUB,MEVE,ISEQ,IANG
0291      PUNCH 1D26,ISUR,NOVE,ISEQ,IANG
0292      0293      410  IF (IPICH.EQ.0) ICNT(1), (XYZ1), ICNT(1), J=1,2), I=1,IC)
0294      PUNCH 1D27,(ICNT(1),(XYZ1),ICNT(1),J=1,3), I=1,IC)
0295      GC TO 410
0296      500 STOP
C      FORMAT STATEMENTS
C
0297      1001 FORMAT(4F6.2,F5.2,2I3,7F5.2,2X,BX)
0298      1002 FORMAT(2SHICAMER A FOCAL LENGTH IS ,F7.2/10X,16HDISTANCE IS
X      F7.2/25H CAMERA 2 FOCAL LENGTH IS ,F8.2/10X,12HDISTANCE IS ,02830000
X      F11.2/16H FILM/SCREEN IS ,F17.2/16H POINTS/FRAME IS ,117/
X      13H FRAMES/SUPERJECT IS ,115/25H S. R. P. RELATIVE TO V . I. *
0299      1DHP. ,3F6.2/35H DIGITIZER ORIGIN RELATIVE TO V . I.,02870200
X      3H P.,3F6.2/13H TOLERANCE IS ,F20.3)
0299      1003 FORMAT(16)
0300      1004 FORMAT(114)
0301      1005 FORMAT(12)20X,12,4,X,F6.2,2(2X,F6.2),2(3X,F5.2),4(4X,14),5(F6.2)
0302      1006 FORMAT(15,2F10.3)
0303      1007 FORMAT(13,7512,37X)
0304      1008 FORMAT (*0,23H PRINTS TARGET-RATIO -- KEY ,14HTP=C=SURFACE,
X      31H TR=1 1 RATIO, TR=Z=1 2 RATIO)
0305      1009 FORMAT(41,24X,47H-----REAL WORLD Z-----,02970000
```

```

      54H---DIGITIZER-----REAL WORLD DISTANCE---- 02980000
      X SUBJECT FRAME POINT,6X,1HX,X,1HY,7X,1HZ,4X, 02990000
      X 55HFROMLT FROM-RT LEFT--X LEFT--Z RIGHT-Y RIGHT-Z IN--X 1, 03000000
      X 22HN-Y IN--Z VECTR CUMM./3(9H 1,9(8H ----), 03010000
      X 5(16H -----) 03020000
      0306 1010 FORMAT(36,I2,8X) 03030000
      X 1011 FORMAT(15,2H),I3,3H TC,13) 03040000
      X 1C12 FORMAT(10CX,4HFRON,I3,3H TO,13,F9.2) 03050000
      X 1013 FORMAT(12,F10.4,213) 03060000
      0310 1014 FORMAT(15,3X,11) 03070000
      0311 1015 FORMAT(16H MOTION NUMBER ,15) 03100000
      0312 1C16 FORMAT(7H ANGLES,313) 03110000
      0313 1017 FORMAT(36,I2,8X) 03120000
      0314 1019 FORMAT(16,2H),I1,13,3H TC,13) 03130000
      0315 1019 FORMAT(8DX,4HFRUN,I3,3H TO,13,5H ANGX,F6.1,5H ANGY,F6.1,5H ANGL, 03140000
      X F6.1)
      0316 1020 FORMAT(9HUANGLES--) 03150000
      0317 1021 FORMAT(1L2H,5DISTANCES--) 03160000
      1C22 FORMAT(42H ANGLE, IN FACIANS, AXES ARE TO BE ROTATED,F10.4/ 03170000
      X 2H ANGLES TO COMPUTE ARE,I11/
      25H DISTANCES TO COMPUTE ARE,I8) 03180000
      0319 1023 FORMAT(46H END FORWARD MOTION -- BEGIN BACKWARD MOTION) 03191000
      0320 1026 FORMAT(4417) 03191100
      0321 1027 FORMAT(44(I2,3)(F6.2)) 03192000
      0322 1030 FORMAT(1+,*3IX,1H&,23X,1H&) 03193000
      0323 1031 FORMAT(1+,*3IX,1H&,23X,1H&) 03196000
      0324 1032 FORMAT(20X,I2,CX,3(2XF6.2)) 03198000
      2C01 FORMAT(25H ****VALUE FOR F1,F7.2,22H IS INVALID & REPLACED,03200000
      X TH BY 1.0) 03210000
      0326 2002 FORMAT(25H ****VALUE FOR D1,F7.2,22H IS INVALID & REPLACED,03220000
      X TH BY 1.0) 03230000
      0327 2003 FORMAT(25H ****VALUE FOR F2,F7.2,22H IS INVALID & REPLACED,03240000
      X TH BY 1.0) 03250000
      0328 2004 FORMAT(25H ****VALUE FOR D2,F7.2,22H IS INVALID & REPLACED,03260000
      X TH BY 1.0) 03270000
      0329 2005 FORMAT(24H ****VALUE FOR S,,F7.2,22H IS INVALID & REPLACED,03280000
      X TH BY 1.0) 03290000
      0330 2006 FORMAT(25H ****VALUE FOR NS,,16,22H IS INVALID & REPLACED,03300000
      X 6H BY 40) 03310000
      0331 2008 FORMAT(26H ****VALUE FOR TOL,,F7.3,20H IS INVALID & REPLACED,03320000
      X 7H BY 1.) 03330000
      0332 2009 FORMAT(1H+47X,1H&) 03340000
      0333 2010 FORMAT(25H ****VALUE FOR NP,,16,22H IS INVALID & REPLACED,03350000
      X 5H BY 30) 03360000
      0334 2C11 FORMAT(25H ****VALUE FOR ND,,16,22H IS INVALID & REPLACED,03370000
      X 5H BY 3) 03380000
      0335 2012 FORMAT(20H ****VALUE FOR ID1,I1,I3,2H)=,16,14H IS INVALID & 03390000
      X 13HR=REPLACED BY 1) 03400000
      0336 2C13 FORMAT(25H ****VALUE FOR ID2,I1,I3,2H)=,16,14H IS INVALID & 03410000
      X 14HR=REPLACED BY NP) 03420000
      0337 2C14 FORMAT(25H ****VALUE FOR NA,,16,22H IS INVALID & REPLACED,03430000
      X 5H BY 3) 03440000
      0338 2C15 FORMAT(26H ****VALUE FOR IAI,I1,I3,2H)=,16,14H IS INVALID & 03450000
      X 13HR=REPLACED BY 1) 03460000
      0339 2C16 FORMAT(25H ****VALUE FOR IAI2,I1,I3,2H)=,16,14H IS INVALID & 03470000
      X 14HR=REPLACED BY NP) 03480000
      0340 END 03490000

```

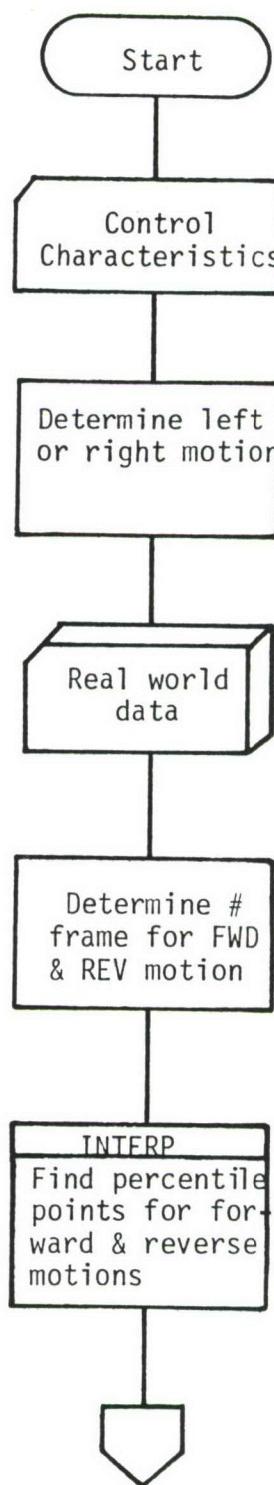


Fig. A-2 Flow Chart for Computer Program used in Statistical Analysis

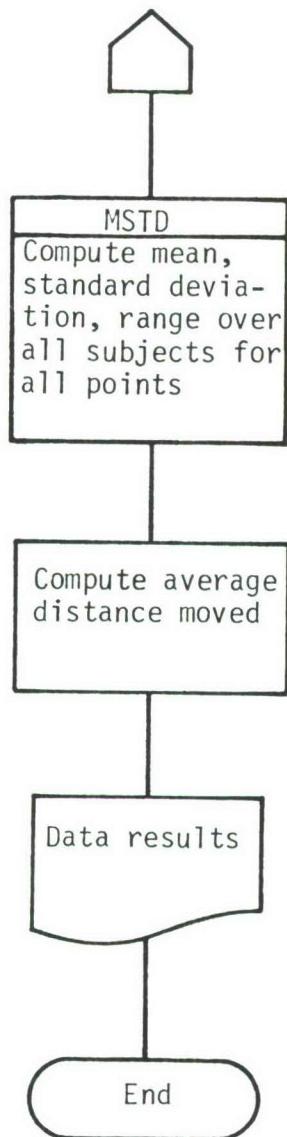


Fig. A-2 (continued)

FURTHER LEVEL 21

ROWANLS

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FORTAN IV G LEVEL 21          RWNALS           DATE = 75344      13/23/27
0J20          DATA IFWRY/2*1H ,1HF,1HD,1HR,1HW,1HA,1HR,1HC,5*1H ,1HR,1HE,1HT,
               X   1HU,1HR,1HW,2*1H /
C           C STATE FUNCTION TO CALCULATE FIFTH AND NINETY-FIFTH PERCENTILES
C           PCITLE(RMEAN,STDV)=RMEAN+1.64*STDV

C           READ CONTROL CHARACTERS
C           INPUT VARIABLES -
C           NANGL          - MAXIMUM NUMBER OF ANGLES TO BE PROCESSED
C           NTIME          - NUMBER OF TIME PARTITIONS
C           NFRAME         - MAXIMUM NUMBER OF SURFACE POINTS ALLOWED PER FRAME
C           NPTS           - MAXIMUM NUMBER OF SURFACE POINTS TO BE USED IN
C                           CALCULATIONS
C           IPTS           - (NPTS,2) ARRAY WHICH HOLDS THE POINT NUMBERS TO BE
C                           PROCESSED FOR RIGHT AND LEFT SIDE
C           IANGLE          - (NANGLE,3) ARRAY WHICH HOLDS THE BODY POINTS USED
C                           TO DETERMINE ANGLES
C           BA              - BACK ANGLE TO BE PROCESSED THIS RUN
C           MVMT           - MOTION NUMBER TO BE PROCESSED THIS RUN
C           VSUB            - TOTAL NUMBER OF SUBJECTS TO BE READ IN
C           TREC            - INDICATES RECORD NUMBER OF FIRST RECORD TO BE
C                           WRITTEN ONTO DIRECT ACCESS DATA SET*. USED ONLY IN
C                           THOSE MOTIONS INVOLVING BOTH RIGHT AND LEFT HANDS.
C           C
C           READ (5,100) NANGL,NTIME,NFRAME,NPOINT,NPTS,IPRT
C           READ (5,100) ((IPTS(I,J),I=1,NPTS),J=1,2)
C           READ (5,100) ((IANGLE(I,J),J=1,3),I=1,NANGLE)
C           IF (IPRT .NE. 0) READ (5,100) LNDMRK
C           READ (5,100) BA,MVMT,NSUB,IREC
C           WRITE (5,'(05B)' BA,MVMT,NTIME,NSUB,NFRAME,NPOINT,NPTS
C           DO 5 1=1,NANGL
C           DO 5 J=1,3
C           IF (IANGLE(I,J) .GE. 1.OR.IANGLE(I,J) .LE.-NPOINT) GO TO 5
C           WRITE (6,1054) J,IANGLE(I,J),JJ=1,31,NPOINT
C           TANGLE(I,J)=NPOINT
C           CONTINUE
C           DNOM=NSUB*(NSUB-1)
C           ITIME=NTIME+1
C           C
C           INITIALIZE ARRAYS
C           DO 10 I=1,ITIME
C           DO 10 J=1,NPTS
C           DO 10 K=1,4
C           DIST(I,J,K)=0
C           PTSUB(I,J,K)=0
C           AMGL (I,J,K)=999.99
C           NJPTS(J,K)=0
C           NDANGL(J,K)=0
C           DO 10 L=1,NSUB
C           XCT(L,I,J,K)=999.99
C           YPC(L,I,J,K)=999.99
C           ZPCT(L,I,J,K)=999.99
C           FHREVL(J,K)=0
C           CONTINUE
C           ISUB=0

```

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RWANLS

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C DETERMINE PRIMARY HAND INVOLVED IN MOTION

0051 M1=100*(WMT,1000)

0052 IF (41-1100.GE.100) GO TO 20

0C53 LR=1

0054 LOOP=4

20 GO TO 23

0055 LOOP=2

0056 LR=1

0057 M1=MOD(M1,1000)

0058 IF (M1-100.GE.100) LR=2

0059 0060 23 WRITE (6,1059) WMT,LOOP,ILR(ILR)

C START MAIN LOOP WHICH READS IN SUBJECT DATA AND COMPUTES

C PERCENTILES -- ONCE PER SUBJECT

C 25 DO 30 IND1=1,NFRAME

DO 30 IND2=1,NPOINT

RWPX(IND1,IND2)=999.99

RWPY(IND1,IND2)=999.99

RWPZ(IND1,IND2)=999.99

LFRM=0

MISIND=0

K=0

C READ IN SUBJECT DATA

C INPUT VARIABLES -

C INSB - SUBJECT NUMBER

C NF - TOTAL NUMBER OF FRAMES FOR SUBJECT(INSB)

C I4 - LAST FRAME OF FORWARD MOTION

C IFRM - MISSING FRAMES, IF ANY

C I41 - LAST FRAME OF LEFT FORWARD MOTION

C I42 - LAST FRAME OF RIGHT REVERSE MOTION

C (I41 AND I42 ARE USED IN MOTIONS INVOLVING LEFT AND

C RIGHT HANDS, ONLY)

C 0061 READ (5,1002) INSB,IF,14,IFRM,I41,I42

WRITE (6,1060) INSB,IF,14

ISUB=ISUB+1

IF1=1

IF2=2

40 IF (IFRM(IF1).EQ.0) GO TO 70

IF (IFRM(IF1).EQ.1) GO TO 50

IF (IF1.NE.1) GO TO 45

I1=1

I2=IFRM(IF1)

GJ TO 47

45 I1=IFRM(IF2)-1

I2=IFRM(IF1)-1

47 WRITE (6,1061) (I,I=11,12)

50 IND2=IFRM(IF1)

IND3=IFRM(IF2)

IND1=IND2

52 READ (5,1001) ((IP(I,J), (DUMMY(I,J)), J=1,3)), I=1,4

IF (IP(I,1).EQ.-1) GO TO 55

IF (IP(I,1).LT.0) I,CJ=IND1+1

IF S3,I=1,4

IF (IP(I,1).EQ.0) GC TO 52.

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```

K=IPT(I)
RWPX(INDL,IPT(I))=DUMMY(I,1)
RWPY(INDL,IPT(I))=DUMMY(I,2)
RWPZ(INDL,IPT(I))=DUMMY(I,3)
53 CONTINUE
GO TO 52
55 CONTINUE
IF I=F1+2
IF2=F2+2
GO TO 40
C DETERMINE FORWARD AND BACKWARD MOTION
70 IF (INDL.EQ.NP) GO TO 75
WRITE (6,1057) IND1,NF,NSB
DO 74 I=1,IND1
WRITE (6,1062) I,(J,RWPX(I,J),RWPY(I,J),RWPZ(I,J)),J=1,NPOINT
74 CONTINUE
IER=1
75 CONTINUE
IF (LJDP.EQ.4) GO TO 80
FADREV(I SUB,1)=I4
FADREV(I SUB,2)=NF-I4
GO TO 90
80 FADREV(I SUB,1)=I4
FADREV(I SUB,2)=I4-I4
FADREV(I SUB,4)=NF-I4
FADREV(I SUB,3)=NF-I4-FADREV(I SUB,4)

C INTERPOLATE BETWEEN FRAMES TO FIND PERCENTILES
90 CONTINUE
WRITE (6,2020) ISUB, (FADREV(I SUB,J),J=1,LQCP)
CALL INTERP(XPCT,YPCT,ZPCT)
IF (ISUB.LT.NSUB) GO TO 25
IF (IER.NE.0) STOP

C SAVE DATA ON LEFT HAND MOTION ON DIRECT ACCESS DATA SET FOR
C LATER COMPUTATION.
IF (LJDP.NE.4) GO TO 95
READ (2*1) IFD
WRITE (6,2020) IFD
IF (IREC.NE.0) IFD=IREC
WRITE (6,1063)
DO 92 I=1,NSUB
IS=I+2
J1=J
DO 92 J=1,4,3
J1=J1+1
IFD=IFD+1
WRITE (2*1FD, X) BA,MVMT,IS,J1,NPTS,ITIME, FADREV(I,J),
((XPCT(I,IT,IP,J),YPCT(I,IT,IP,J),ZPCT(I,IT,IP,J)),
IT=1,ITIME),IP=1,NPTS)
X WRITE (6,1064) IFD,IS,BA,MVMT,J
92 CONTINUE
IF (IREC.NE.0) GO TO 95
WRITE (2*1) IFD
WRITE (6,2020) IFD
C

```

F0PTFAT4 LEVEL 21 RMANLS DATE = 75344 PAGE 20CS

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C COMPUTE MEAN AND STANDARD ERROR FOR X, Y, AND Z VALUES
C COMPUTE MEAN AND STANDARD ERROR FOR TIME VALUES
C COMPUTE DISTANCES

0139 C160
C141 DO 98 I=1,ITIME
0142 DO 98 J=1,NPTS
DO 98 K=1,LOOP
XMEAN(I,J,K)=0.0
YMEAN(I,J,K)=0.0
ZMEAN(I,J,K)=0.0
XSTDV(I,J,K)=0.0
YSTDV(I,J,K)=0.0
ZSTDV(I,J,K)=0.0
95 CONTINUE

0144 XSPCT(I,J,K)=0.0
0145 YSPCT(I,J,K)=0.0
0146 ZSPCT(I,J,K)=0.0
0147 X5PCT(I,J,K)=0.0
0148 Y5PCT(I,J,K)=0.0
0149 Z5PCT(I,J,K)=0.0
0150 CALL MSTD(XPCT,XMEAN,XSTDV)
0151 CALL MSTD(YPCT,YMEAN,YSTDV)
CALL MSTD(ZPCT,ZMEAN,ZSTDV)
0152 CALL 'MSTD'(XPCT,YMEAN,YSTDV)
0153 DO 99 I=1,ITIME
0154 DO 99 J=1,NPTS
0155 DO 99 K=1,LOOP
0156 XSPCT(I,J,K)=0.0
0157 YSPCT(I,J,K)=0.0
0158 ZSPCT(I,J,K)=0.0
0159 X35PCT(I,J,K)=0.0
0160 Y35PCT(I,J,K)=0.0
0161 Z35PCT(I,J,K)=0.0
0162 99 CONTINUE

0163 C COMPUTE MEAN AND STANDARD ERROR FOR TIME VALUES
C COMPUTE MEAN AND STANDARD ERROR FOR TIME VALUES
C COMPUTE DISTANCES

0164 DO 140 L=1,LOOP
0165 SUM=0
0166 SUM=C
0167 IMIN=C
0168 IMAX=C
0169 DO 120 IMD=1,NSUB
I1=FWDREVIND,L)
SUM=SUM+II
SUM2=SUM2+II**2
IF (IMIN.GT.I1) IMIN=II
IF (IMAX.LT.I1) IMAX=II
120 CONTINUE
MEAN(L)=(SUM/NSUB)/10.
STD(L)=(SQRT((NSUB*SUM2-(SUM**2))/DENOM))/10.
MIN(L)=IMIN/10.
MAX(L)=IMAX/10.

0170 0171
0172
0173
0174
0175
0176
0177
0178

0179 DO 130 I=1,ITIME
0180 DO 120 J=1,NPTS
0181 IF (TSU3(IND1,IND2,L).EQ.0) GO TO 120
C NPTS(I,J) = 0 -- NO SURFACE POINTS READ OR CALCULATED FOR THE
C NPTS(I,J) = 1 -- I-TH POINT OF THE J-TH MOTION
C NPTS(I,J) = 2 -- 2-TH OR MORE SURFACE COUNTS CALCULATED FOR THE
C NPTS(I,J) = 3 -- 3-TH POINT OF THE J-TH MOTION
C IF (NPTS(IND2,L).EQ.1) GO TO 110

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0183      NOPTS(IND2,L)=1
0184      GO TO 115
0185      X1ST=(X-MEAN(IND1,IND2,L)-XLAST(IND2,L))**2
0186      Y1ST=(Y-MEAN(IND1,IND2,L)-YLAST(IND2,L))**2
0187      ZDIST=Z-MEAN(IND1,IND2,L)-ZLAST(IND2,L))**2
0188      DIST=(IND1,IND2,L)=SQRT(XDIST+YDIST+ZDIST)
0189      XLAST(IND2,L)=X-MEAN(IND1,IND2,L)
0190      YLAST(IND2,L)=Y-MEAN(IND1,IND2,L)
0191      ZLAST(IND2,L)=Z-MEAN(IND1,IND2,L)

C      CALL FUNCTION TO CALCULATE FIFTH AND NINETY-FIFTH PERCENTILES OF DATA
0192      X5PCT(IND1,IND2,L)=PCTE(XMEAN(IND1,IND2,L),-XSTDV(IND1,IND2,L))
0193      Y5PCT(IND1,IND2,L)=PCTE(YMEAN(IND1,IND2,L),-YSTDV(IND1,IND2,L))
0194      Z5PCT(IND1,IND2,L)=PCTE(ZMEAN(IND1,IND2,L),-ZSTDV(IND1,IND2,L))
0195      X9PCT(IND1,IND2,L)=PCTE(XMEAN(IND1,IND2,L),YSTDV(IND1,IND2,L))
0196      Y9PCT(IND1,IND2,L)=PCTE(YMEAN(IND1,IND2,L),YSTDV(IND1,IND2,L))
0197      Z9PCT(IND1,IND2,L)=PCTE(ZMEAN(IND1,IND2,L),ZSTDV(IND1,IND2,L))

120  CONTINUE

C      CALCULATE SPECIFIED ANGLES
0199      TLR1=L
0200      IF (L0JP .GT. 2) TLR1=LRTBLE(L)
0201      DO 125 I=1,NANGL
0202      IF (PTSUB(IND1,IANGLE(I,1),L).EQ.0.OR.PTSUB(IND1,IANGLE(I,2),L)
0203      X      *EQ.0) OR.PTSUB(IND1,IANGLE(I,3),L).EQ.0) GOTO 125
0204      J1=IANGLE(I,1)
0205      D1=1,2,J=1,2
0206      J2=IANGLE(I,J+1)
0207      DX(IJ)=X-MEAN(IND1,J2,L)-XMEAN(IND1,J1,L)
0208      DY(IJ)=Y-MEAN(IND1,J2,L)-YMEAN(IND1,J1,L)
0209      DZ(IJ)=Z-MEAN(IND1,J2,L)-ZMEAN(IND1,J1,L)
0210      DXYZIJ=SQRT(DX(IJ)**2+DY(IJ)**2+DZ(IJ)**2)
0211      CONTINUE
0212      DDXYZ=DXYZ(I,1)*DXYZ(2)
0213      X      ANGL(IND1,I,L)=(ARCCOS((DX(1)*DX(2)+DY(1)*DY(2)+DZ(1)*DZ(2))/
0214      125  CONTINUE
0215      130  CONTINUE
0216      140  CONTINUE

C      PRINT RESULTS
0217      IF (IPRT .NE. 0) GO TO 300
0218      FRACT=1./NTIME
0219      IPG=0
0220      DJ 200 I=1,LOOP
0221      IPG=IPG+1
0222      IF (L0JP .EQ. 2) GO TO 160
0223      IF1=IFD(FRTBLE(I))
0224      ILR1=LRTBLE(I)
0225      GO TO 165
0226      CONTINUE
0227      IF1=IFH(I)
0228      ILR1=L
0229      X      WRITE (5,750) 'WMT,IPG,BA,ILR(ILR1),IFI,'EAN(I),STR(I),
0230      X      X      'I'(I),'MAX(I),
C

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C WRITE JUT BLOCKS OF DATA PER TIME UNIT

```

C
12=0
  DD 130 IND2=1,NPTS
  DSUM=0.0
  SUMT=0.
  IF (NOPS(IND2,1).EQ.0) GO TO 180
  I2=12+1
  IF (I2*(ITIME+5).LE.55) GO TO 170
  I2=1
  IPG=IPG+
  WRITE (6,1051) MVMT,ILR(ILR1),IF1      * IPG
  170  WRITE (6,1052) IPTS(IND2,ILR1)
  DO 175 IND1=1,ITIME
    IF (IND1.EQ.1) GO TO 172
    DSUM=DSUM+DIST(IND1,IND2,1)
    SUMT=SUMT+FRAC
    172  WRITE (6,1053) SUMT,PITSUB(IND1,IND2,1)*XMEAN(IND1,IND2,1),
          XSTDV(IND1,IND2,1),X5PCT(IND1,IND2,1),X95PCT(IND1,IND2,1),
          X,Y4AN(IND1,IND2,1),YSTDV(IND1,IND2,1),Y5PCT(IND1,IND2,1),
          X,Y95PCT(IND1,IND2,1),ZMEAN(IND1,IND2,1),ZSTDV(IND1,IND2,1),
          X,Z5PCT(IND1,IND2,1),Z95PCT(IND1,IND2,1),DSUM
    175 CONTINUE
  180 CONTINUE
C   WRITE JUT ANGLES BETWEEN SPECIFIED SURFACE POINTS
  I2=0
  IPG=IPG+
  WRITE (6,1051) MVMT,ILR(ILR1),IF1,IPG
  DO 190 J=1,NANGL
    IF (NOANGL(J,1).EQ.0) GO TO 190
    SUMT=J.
    I2=12+1
    IF ((I2*((ITIME+3)).LE.55) GO TO 182
    I2=1
    IPG=IPG+
    WRITE (6,1051) MVMT,ILR(ILR1),IF1,IPG
    182  WRITE (6,1055) IPTS(TANGLE(J,2),ILR1),IPTS(TANGLE(J,1),ILR1),
          IPTS(TANGLE(J,3),ILR1)
    DO 185 K=1,ITIME
      IF (TANGL(K,J,1).EQ.999.0) GO TO 185
      IF ((K.EQ.1)) GO TO 183
      SUMT=SUMT+FRAC
      183  WRITE (6,1056) SUMT,ANGL(K,J,1)
    185 CONTINUE
    190 CONTINUE
    200 CONTINUE
  STOP
C   PRINT RESULTS IN FORMAT FOR DOCUMENT
  300  WRITE (6,1080) MVMT,BA
  I1=1
  I2=2
  IF (LOOP.EQ.2) GO TO 303
  I1=2
  I2=3

```


X 13HSECS. RANGE ,F5•2,3H TO ,F6•2,5HSECS./)
 0216 X 1051 FORMAT (1H1, / 14H MOTION NUMBER,16, 3H (,A4,1X,A3,
 X 11H POSITION) ,50X,4H PAGE,13/)
 0317 1052 FORMAT (1H0,10X,18H POSITION OF POINT ,15// 1X,12HTIME SAMPLE ,3X,
 X 1H(.6X,15HX - CO-ORDINATE,8X,3H) (.6X,15HY - CO-ORDINATE,
 X 3X,3H) (.6X,15HZ - CO-ORDINATE,9X,16H) DISTANCE MOVED/
 5H SECS,2X
 X 6HSIZE,N,2X,3(32H MEAN SE 5 PCT 95 PCT),4X,
 X 4HINC,4X,3HCW)
 0218 1053 FORMAT (1H ,F5•2,1X,15,3X,12(F6•2,2X),2F7•2)
 0319 1054 FORMAT (3H *** THE ,12,37H VERTICE FOR THE ANGLE BETWEEN POINTS,
 X 13,1H,,13,4H A,D,13,33HECEEDS LIMITS AND IS REPLACED BY,
 X 13,4H ***)
 2320 1055 FORMAT (1H0,4H TIME(SEC'S) -- ANGLE(DEGREES) BETWEEN POINTS, 13,
 X 1H,,13,4H AND,13)
 0321 1056 FORMAT (1H ,3X,F4•2,5X,F10•2)
 0322 1057 FORMAT (20H *** LAST FRAME READ,13,23H DOES NOT CORRESPOND TO,
 X 24H TOTAL NUMBER OF FRAMES,13,12H, FCR SUBJECT ,12,4H ***)
 C 223 1059 FORMAT (1H1, 9X,29HBACK ANGLE TO BE PROCESSED --,13/1)X,
 X 12H INTERVALS --,13/10X,15HNUMBER OF TIME ,
 X 23H SUBJECTS TO BE PROCESSED --,16/10X,15HNUMBER OF TIME ,
 X 21HFRAMES PER SUBJECT --,13/10X,21HMAX NUMBER OF POINTS ,
 X 234 TO BE READ PER FRAME --,13/10X,22HMAX NUMBER OF POINTS ,
 X 35H TO BE PROCESSED PER TIME PERIOD --,13)
 0324 1059 FORMAT (1H-, 9X 6HMOTION,16,9H CONTAINS,12,13H SUBMOTIONS, ,
 X 24HPRIMARILY INVOLVING THE ,A4,5H SIDE)
 C 325 1060 FORMAT (1H-,15X,14HSUBJECT NUMBER,13,9H CONTAINS,13,1H *
 X 44HFRAMES. THE FORWARD MOTION ENDS AFTER FRAME,12)
 0326 1061 FORMAT (1H *** FRAMES,13,5H THRU,13,12H MISSING ***)
 0327 1062 FORMAT (15,5(13,3F7•2),5(4X,(13,3F7•2)))
 0328 1063 FORMAT (1H) ,5X,34HDA RCD NC SUBJ BA (MVMT SUBMVT)
 0329 1064 FORMAT (1H .7X,15,5X,12,3X,12,1X,15,6X,11)
 0330 1080 FORMAT (1H|||||||/50X,16HPOSITION NUMBER - ,15/63X,5HBACK ,
 X 8HANGLE - ,
 X 12///40X,12H5 J-B-MOVEMENT, 5X,12(1H-), 9HTIME DATA,12(1H-)/
 X 57X,64HMEAN,5X,7HSTD DEV,11X,5H RANGE)
 0331 1081 FORMAT (1H)4DX,A+,1X,A3,1X ,3(6X,F5•2),4H TO ,F5•2 ,
 X 6H SECS.)
 0332 1082 FORMAT (1H0,42X,11HLANDMARK -, ,5A4,2H ([,13,1H)/4X,4HTIME,2X,
 X 5HSAMPLE,2X,1H(,6(1H-),15HX - CO-ORDINATE,8(1H-),3H) (,
 X 6(1H-),15HY - CO-ORDINATE,8(1H-),2H) (.6(1H-),7HZ - CO-,
 X 8HZCO-ordinate,3(1H-),16H) DISTANCE MOVED/6X,1HT,3X,6HSIZE,N,
 X 1X,3(32H MEAN SE 5 PCT 95 PCT),4X,4HICR,4X,
 X 3-CUM)
 0333 1083 FORMAT (1H1)
 0334 1084 FORMAT (1H+,12(/))
 0335 1085 FORMAT (1H ,1X,AL,1X,F4•2,17,3X,12(F6•2,2X),2F7•2)
 0336 1086 FORMAT (1H-/94 MVMT NO.,1X,15,1H/,12)
 0337 1087 FORMAT (1H)
 0338 2000 FORMAT (1D15)

C001

SUBROUTINE INTERP(XPCT,YPCT,ZPCT)

C SUBROUTINE TO DETERMINE POINTS FOR EACH SUBJECT AT A SPECIFIED

TIME INTERVAL

REAL RWPTX(40,30),RWPTY(40,30),RWPYZ(40,30),

XPCT(7,15,15,4),YPCT(7,15,15,4),ZPCT(7,15,15,4)

INTEGER FADREV(7,4),IPTS(16,2),PTSUB(15,16,4),FRAME,MPTS(15)

COMMON /PGMDTA/NSUB,NTIME,LCP,IPTS,PTSUB,TCL,NPTS,FWDREV,LR

COMMON /SUBDTA/ISUB,NF,14,FWPTX,RWPTY,RWPYZ

INIT=0

FRAME=0

C

C

DO 100 IND1=1,LOOP

IF (IND1.GT.1) INIT=INIT+FRAME

FRAME=FADREV(ISUB,IND1)

IF (LOOP.LE.2) GO TO 10

LQ=3-IND1

IF (IND1.LE.2) GO TO 10

LQ=1

IF (IND1.EQ.4) LR=2

IF (IND1.EQ.0) LR=1

IF (IND1.EQ.3) LR=3

IF (IND1.EQ.5) LR=5

IF (IND1.EQ.6) LR=6

IF (IND1.EQ.7) LR=7

IF (IND1.EQ.8) LR=8

IF (IND1.EQ.9) LR=9

IF (IND1.EQ.10) LR=10

IF (IND1.EQ.11) LR=11

IF (IND1.EQ.12) LR=12

IF (IND1.EQ.13) LR=13

IF (IND1.EQ.14) LR=14

IF (IND1.EQ.15) LR=15

IF (IND1.EQ.16) LR=16

IF (IND1.EQ.17) LR=17

IF (IND1.EQ.18) LR=18

IF (IND1.EQ.19) LR=19

IF (IND1.EQ.20) LR=20

IF (IND1.EQ.21) LR=21

IF (IND1.EQ.22) LR=22

IF (IND1.EQ.23) LR=23

IF (IND1.EQ.24) LR=24

IF (IND1.EQ.25) LR=25

IF (IND1.EQ.26) LR=26

IF (IND1.EQ.27) LR=27

IF (IND1.EQ.28) LR=28

IF (IND1.EQ.29) LR=29

IF (IND1.EQ.30) LR=30

IF (IND1.EQ.31) LR=31

IF (IND1.EQ.32) LR=32

IF (IND1.EQ.33) LR=33

IF (IND1.EQ.34) LR=34

IF (IND1.EQ.35) LR=35

IF (IND1.EQ.36) LR=36

IF (IND1.EQ.37) LR=37

IF (IND1.EQ.38) LR=38

IF (IND1.EQ.39) LR=39

IF (IND1.EQ.40) LR=40

IF (IND1.EQ.41) LR=41

IF (IND1.EQ.42) LR=42

IF (IND1.EQ.43) LR=43

IF (IND1.EQ.44) LR=44

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FORTRAN IV G LEVEL 21
 DATE = 75344
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 INTERP

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0044      I1=AINIT(A1)
0045      I2=I1+1
0046      GO TO 30
0047      C   CALC FOR EXACT POINT
0048      C   2) I1=INIT+POINT
          I2=I1

          C   CHECK FOR BLANK CELLS
          30 IF (RMPTX(I1,I3)*LT.900.0.AND.RWPTX(I2,I3)*LT.900.0) GO TO 50
          IF (RWPTX(I1,I3)*LT.900.) GO TO 35
          LS=LS+
          50 I1=INIT.EQ.0.AND.I1.EQ.NF) I1=0
          I1=I1-1
          ISD=ISD+
          IF (I1.NE.0) GO TO 35
          I1=INIT
          IF (IND1.EQ.1) I1=NF
          35 IF (RWPTX(I2,I3)*LT.900.) GO TO 40
          I2=I2+
          ISD=ISD+
          40 IF (I1.GE.INIT.AND.I2.LE.INIT+FRAME) GO TO 30
          MP=MP+
          MPTS(MP)=IND3
          GO TO 90

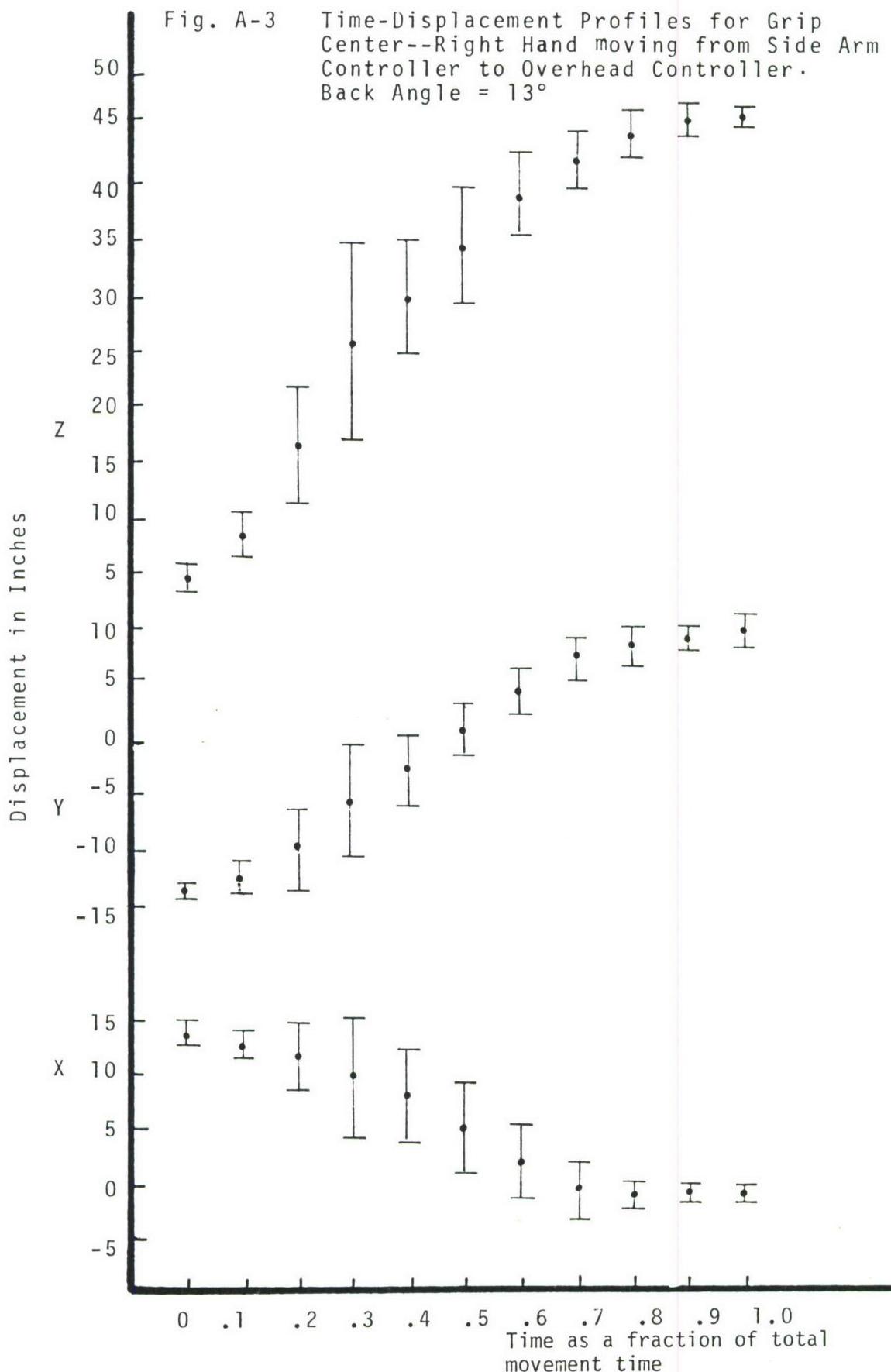
          C   USE FACTOR AND DETERMINE POINT
          50 CONTINUE
          I31=IND3+
          IF (ISD.EQ.0) GO TO 55
          FACT=(FACT+LS)/ISD
          55 XPC(T(I1SUB,I31,IND2,IND1)=RWPTX(I1,I3)+(RWPTX(I2,I3)
          X   -RWPTX(I1,I3))*FACT)
          YPC(T(I1SU2,I31,IND2,IND1)=RWPTY(I1,I3)+(RWPTY(I2,I3)
          X   -RWPTY(I1,I3))*FACT)
          ZPC(T(I1SU3,I31,IND2,IND1)=RWPTZ(I1,I3)+(RWPTZ(I2,I3)
          X   -RWPTZ(I1,I3))*FACT)
          90 CONTINUE
          IF (MP.EQ.0) GO TO 95
          WRITE(6,203) I3,IND1,(MPTS(J1),J1=1,MP)
          95 CONTINUE
          100 CONTINUE
          RETURN
          203 FORMAT(20X,24HPOINTS MISSING FOR POINT,I3,13H, SUBMOVEMENT,I3,
          X   18H, TIME PERIODS) ,1513)
          END
          CC79

```

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C          SUBROUTINE MSTD(XPCT,MEAN,STDEV)
C
C          DIMENSION STDEV(15,16,4),XPCT(7,15,16,4),IPTS(16,2)
C          REAL MEAN(15,16,4)
C          INTEGER XYZ,PITSUB(15,16,4),FWDREV(7,4)
C          COMMON /PMDATA/NSUB,NTIME,LTOP,IPTS,PITSUB,TCL,NPTS,FWDREV,LR
C
C          COMPUTE STANDARD DEVIATION AND MEAN FOR X, Y, AND Z COORDINATES
C
C          ITIME=NTIME+1
C          DO 100 INDI=1,ITIME
C          DO 100 IND2=1,NPTS
C          DO 100 IND3=1,LNODP
C          SUM4=2.0
C          SUMSQ=0.0
C          NV=NSUB
C          DJ 70 IND4=1,NSUB
C          VAL=XPCT(IND4,IND1,IND2,IND3)
C          IF (VAL.LT.-900.) GO TO 50
C          NV=NV-1
C          GO TO 70
C 50   SUM4=SUM4+VAL
C          SUMSQ=SUMSQ+VAL**2
C
C 70   CONTINUE
C          PTSUB(IND1,IND2,IND3)=NV
C          IF (NV.EQ.0) GO TO 100
C          MEAN(IND1,IND2,IND3)=SUM/NV
C          IF (NV.EQ.1) GO TO 100
C          P0 DENOM=NV*(NV-1)
C          90 STDEV(IND1,IND2,IND3)=SQRT((NV*SUMSQ-(SUM**2))/DENOM)
C
C 100 CONTINUE
C          RETURN
C
C          END

```



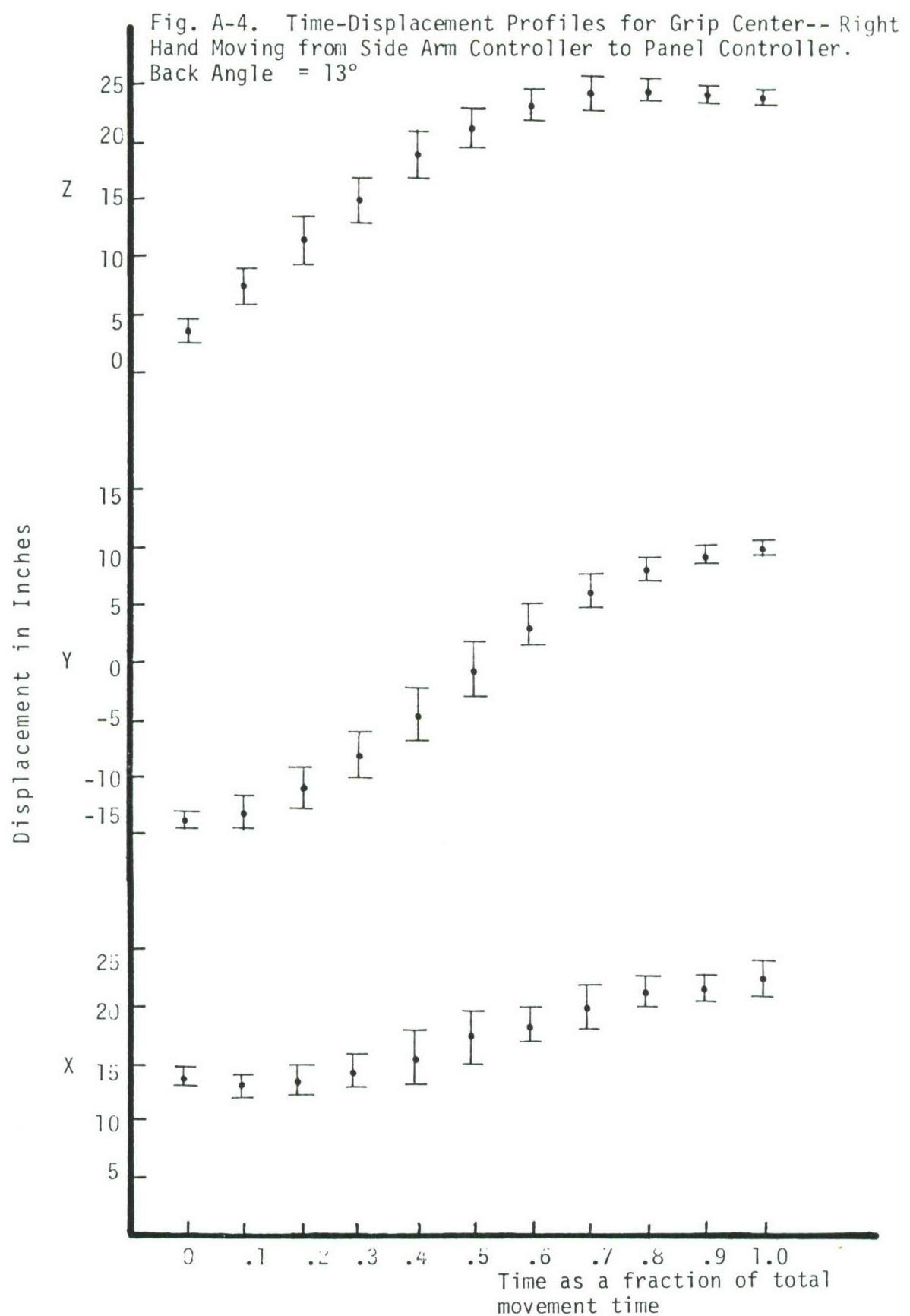


Fig. A-5. Time-Displacement Profiles for Grip Center--
Right Hand Moving from Side Arm Controller to
Hatch Release Controller. Back Angle = 13°

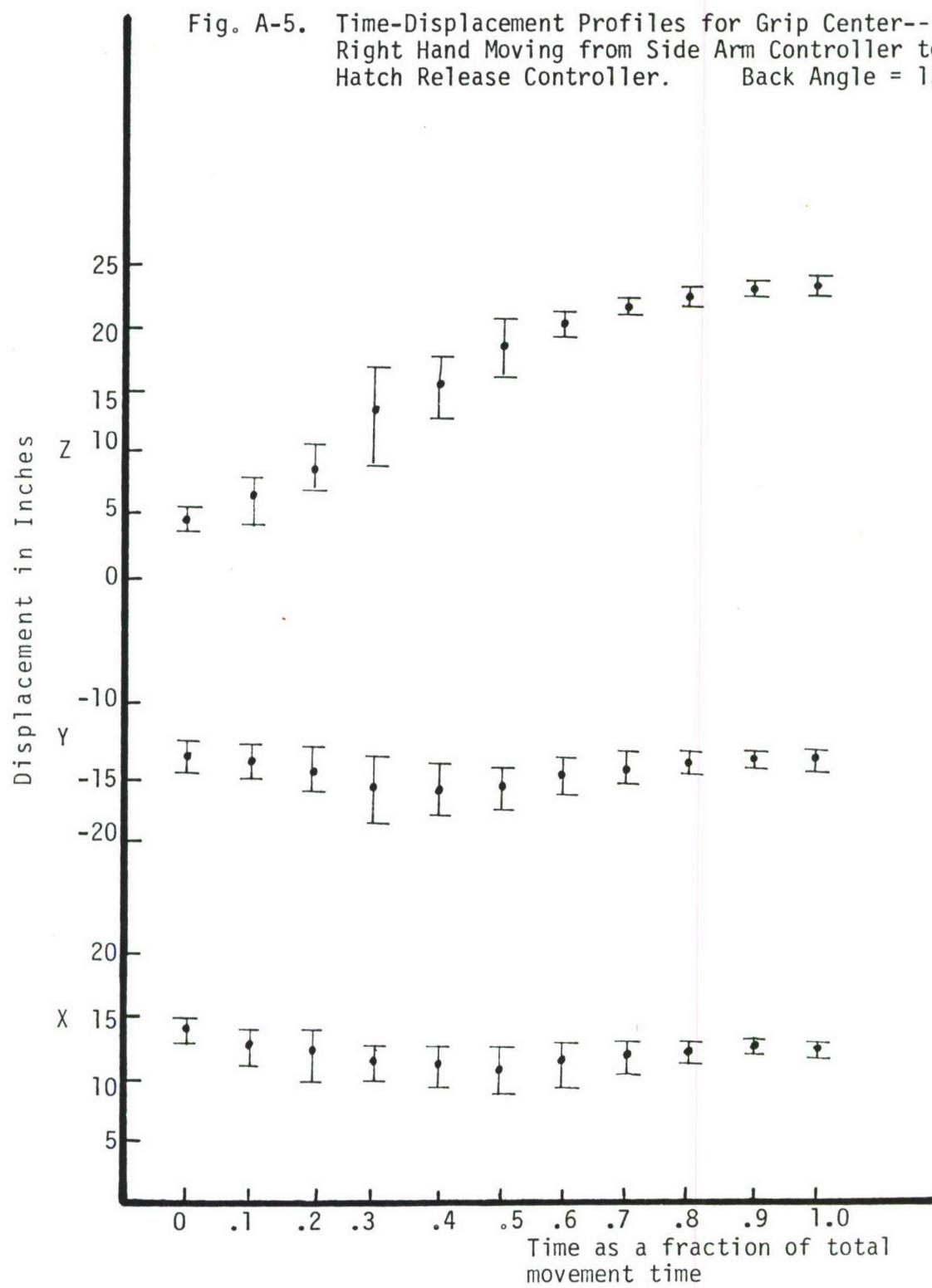


Fig. A-6 Time-Displacement Profiles for Grip Center-Left Hand Moving from Throttle to Over Head Controller. Back Angle=13°

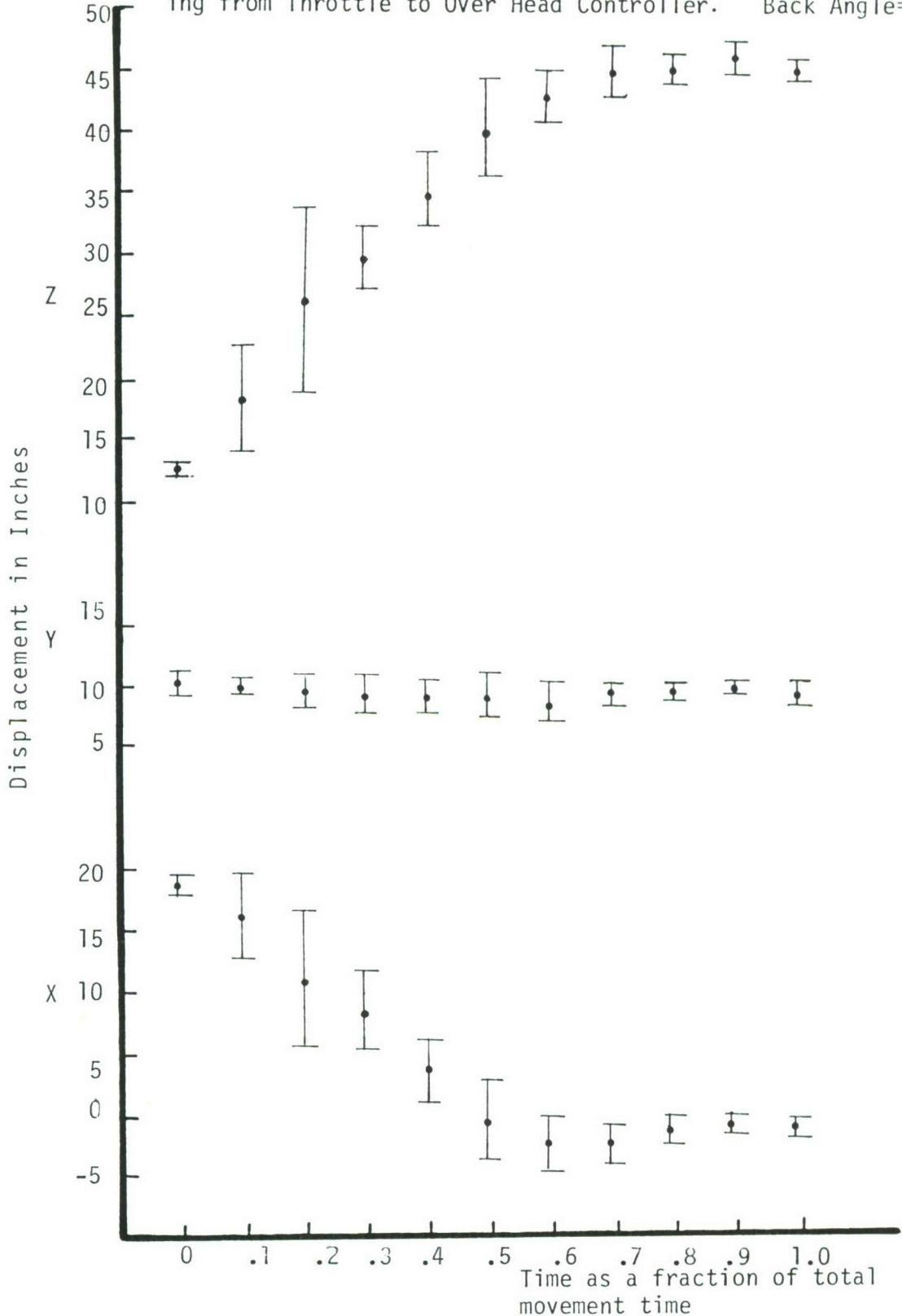
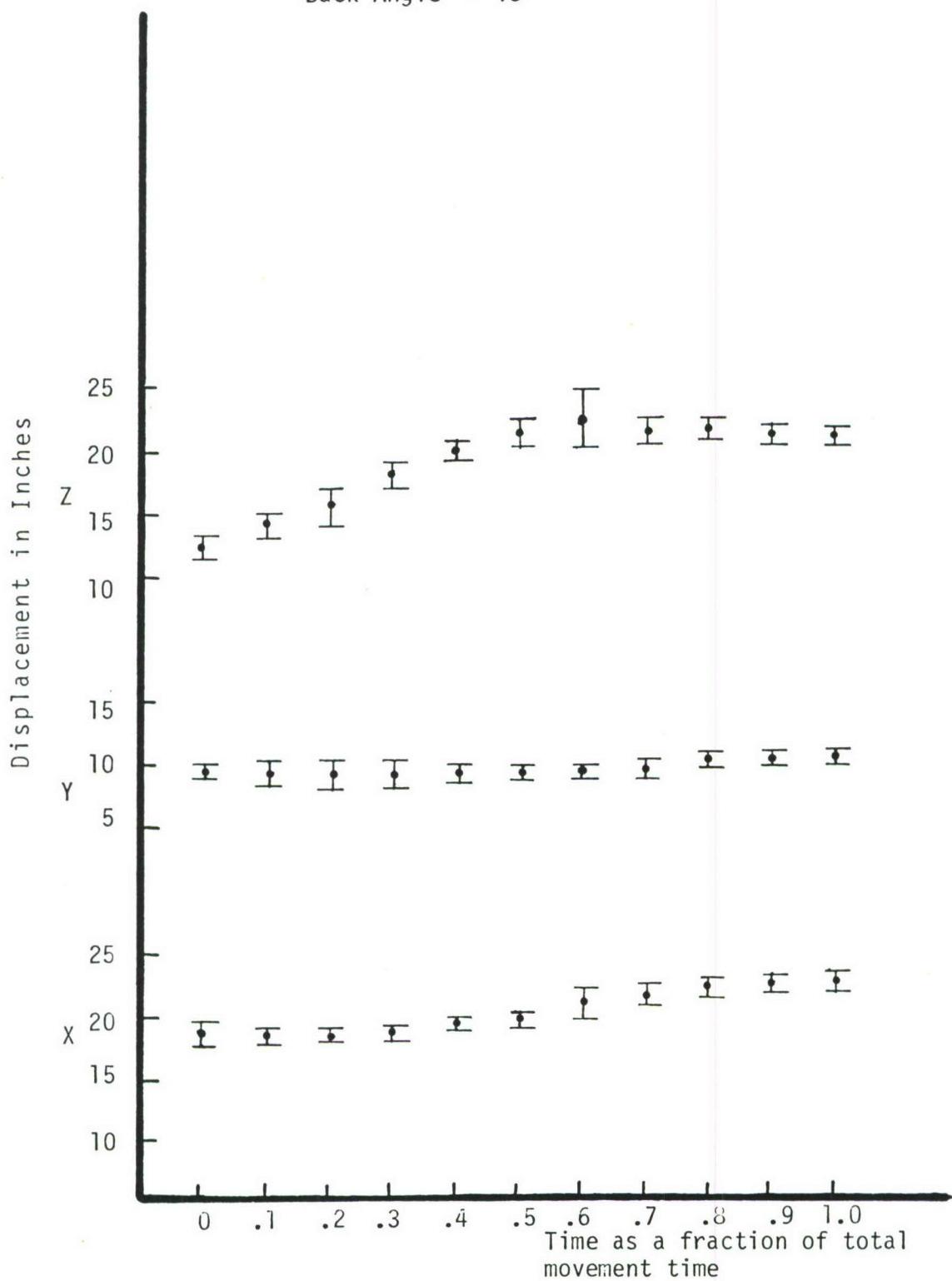


Fig. A-7. Time-Displacement Profiles for Grip Center--
Left Hand Moving from Throttle to Panel Controller.
Back Angle = 13°



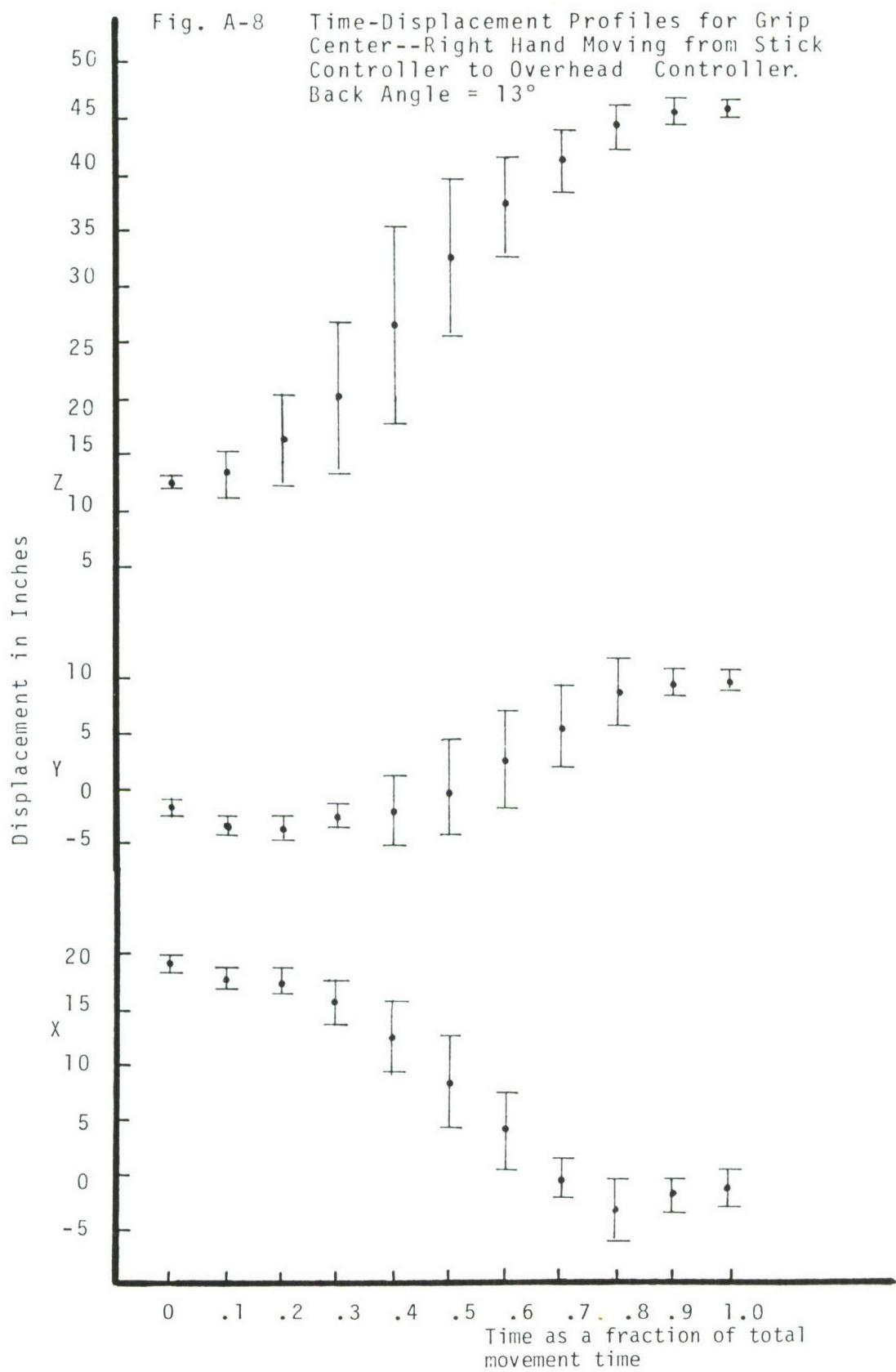


Fig. A-9. Time-Displacement Profiles for Grip Center--
Right Hand Moving from Stick Controller to
Panel Controller. Back Angle = 13°

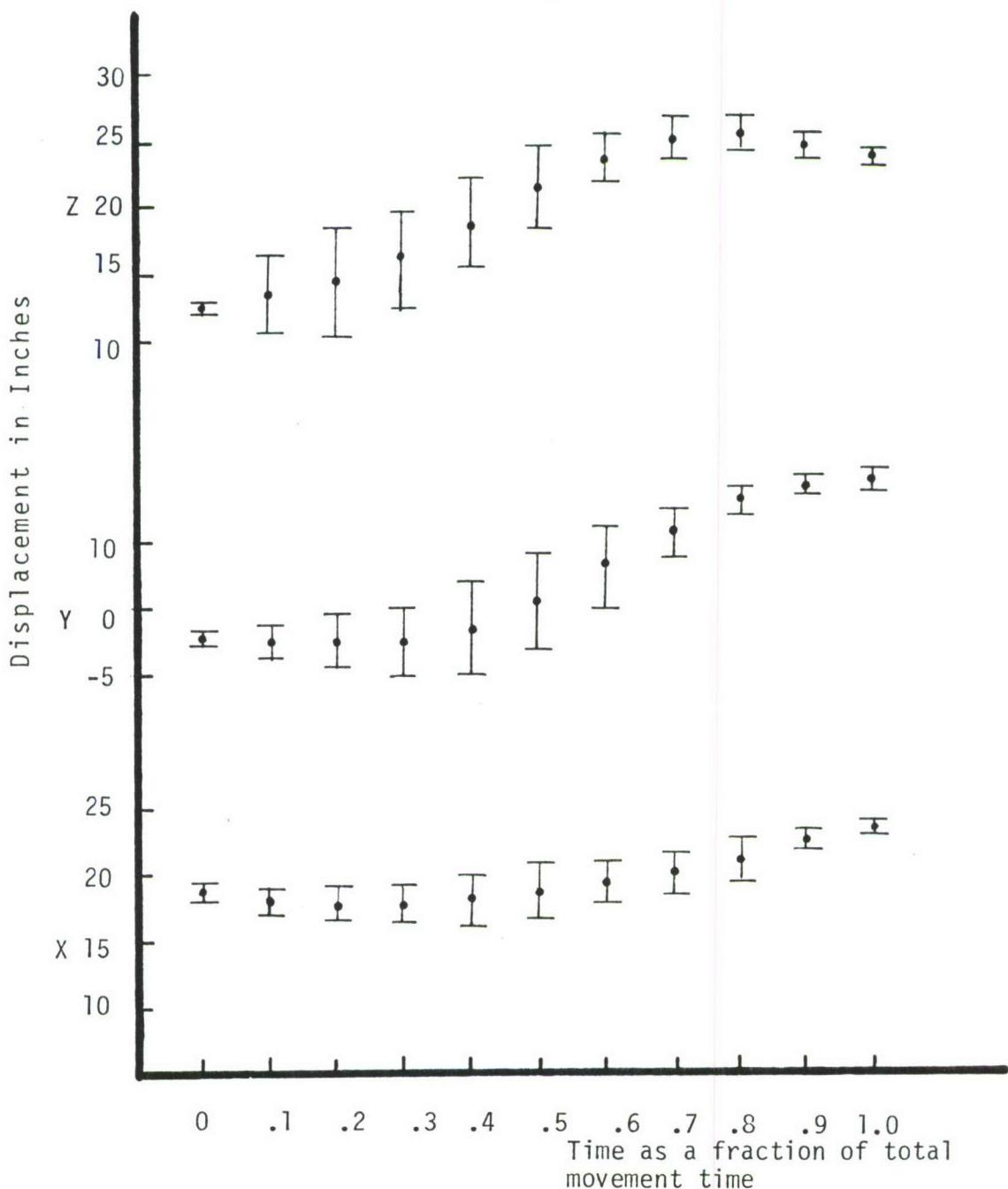


Fig. A-10. Time-Displacement Profiles for Grip Center--
Right Hand Moving from Stick Controller to
Hatch Release Controller. Back Angle = 13°

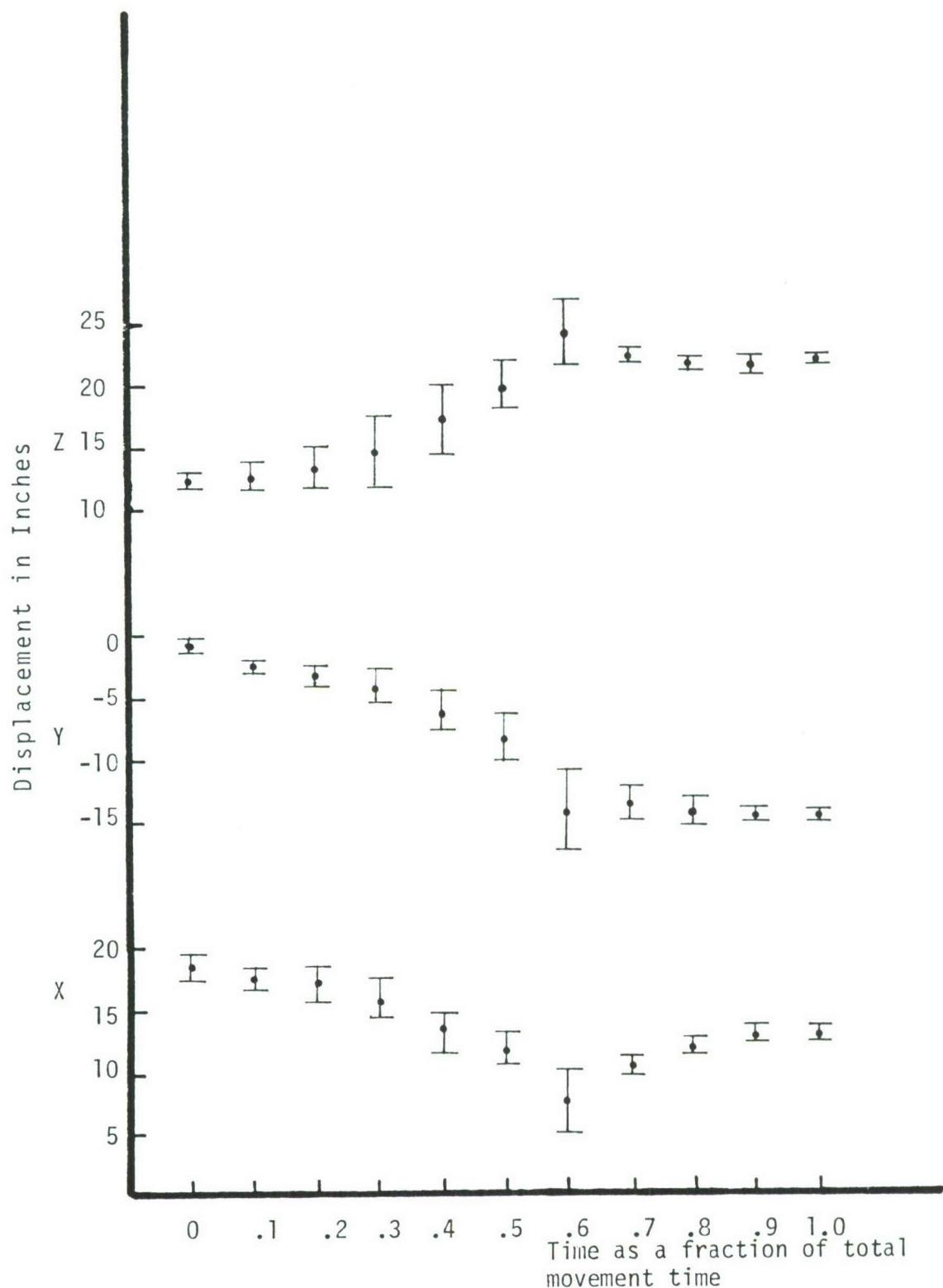


Fig. A-11 Time-Displacement Profiles for Grip Center--Right Hand Moving from Side Arm Controller to Overhead Controller.
Back Angle = 30°

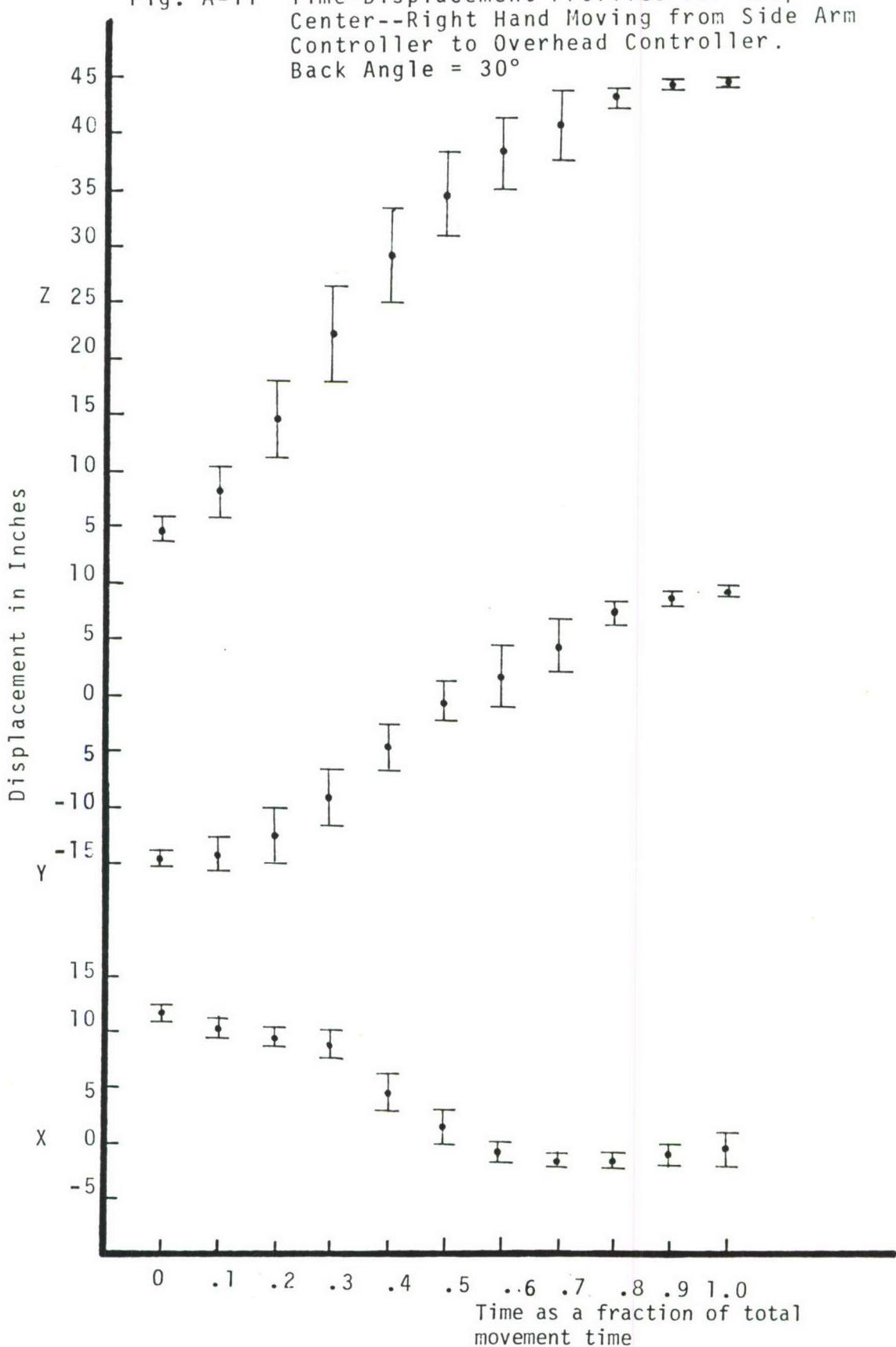


Fig. A-12. Time-Displacement Profiles for Grip Center--Right Hand Moving from Side Arm Controller to Panel Controller . Back Angle = 30°

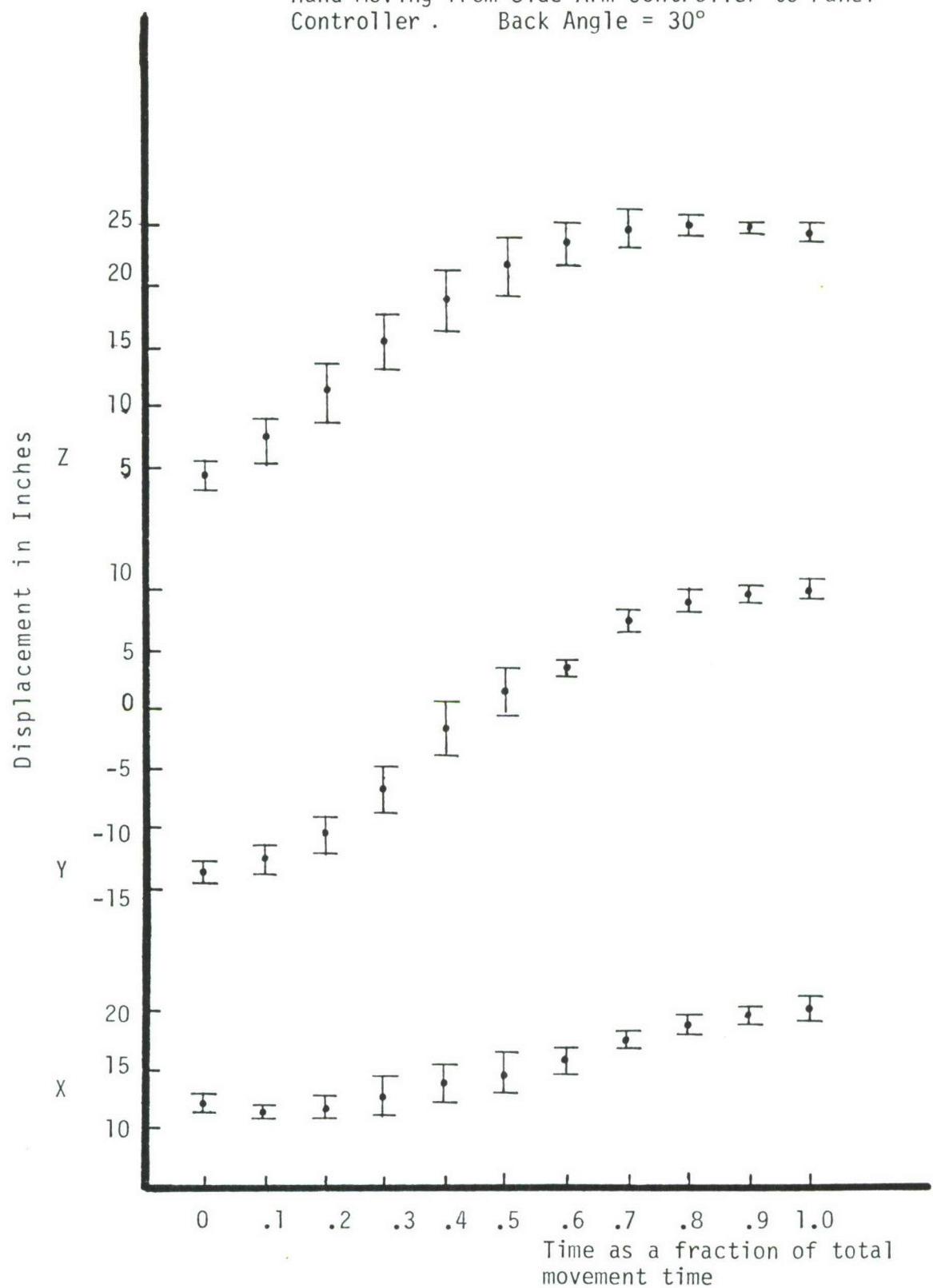


Fig. A-13. Time Displacement Profiles for Grip Center--
Right Hand Moving from Stick Controller to
Panel Controller. Back Angle = 30°

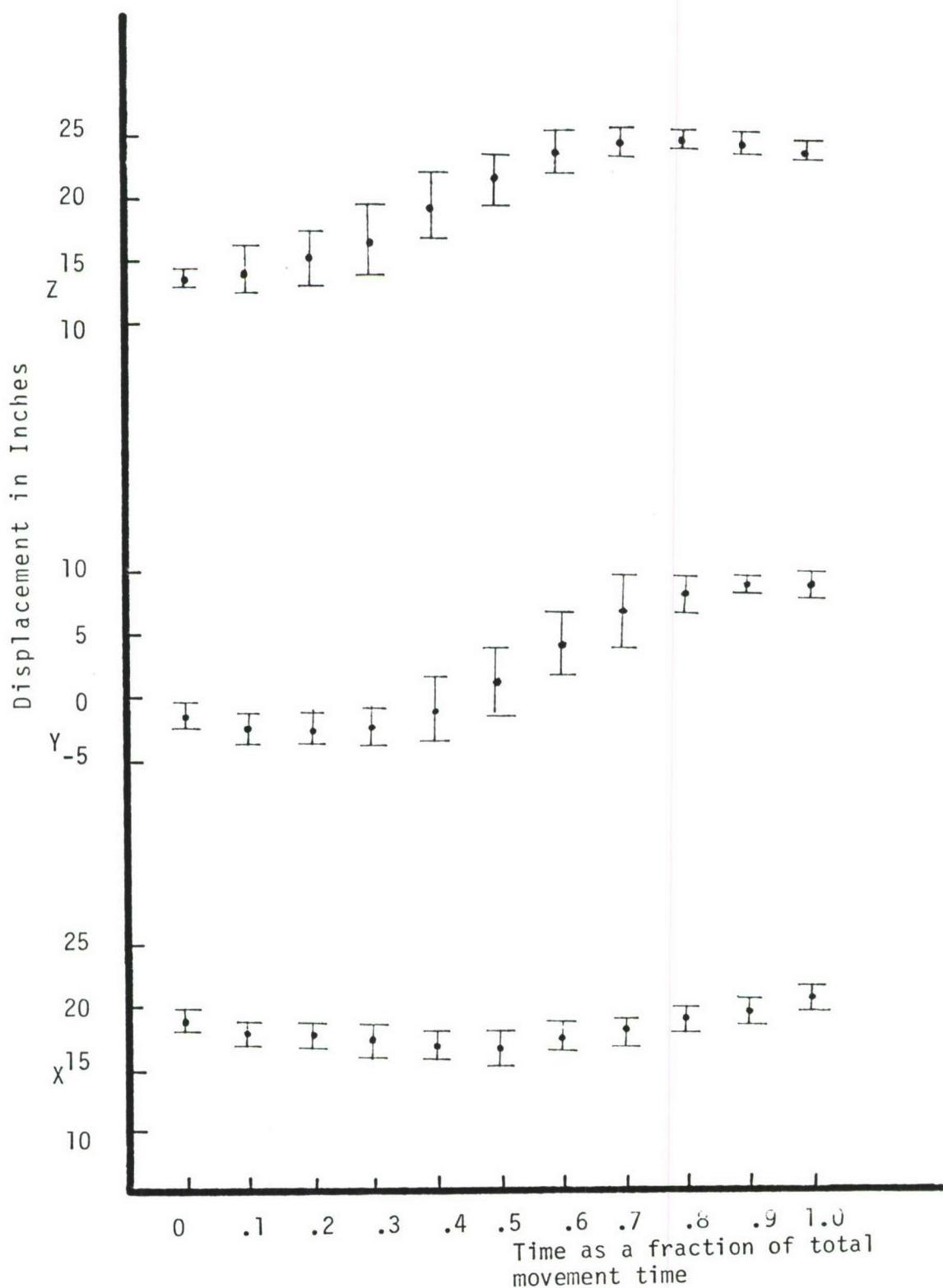


Fig. A-14 Time Displacement Profiles for Grip Center --
Right Hand Moving from Side Arm Controller
to Overhead Controller. Back Angle = 30°

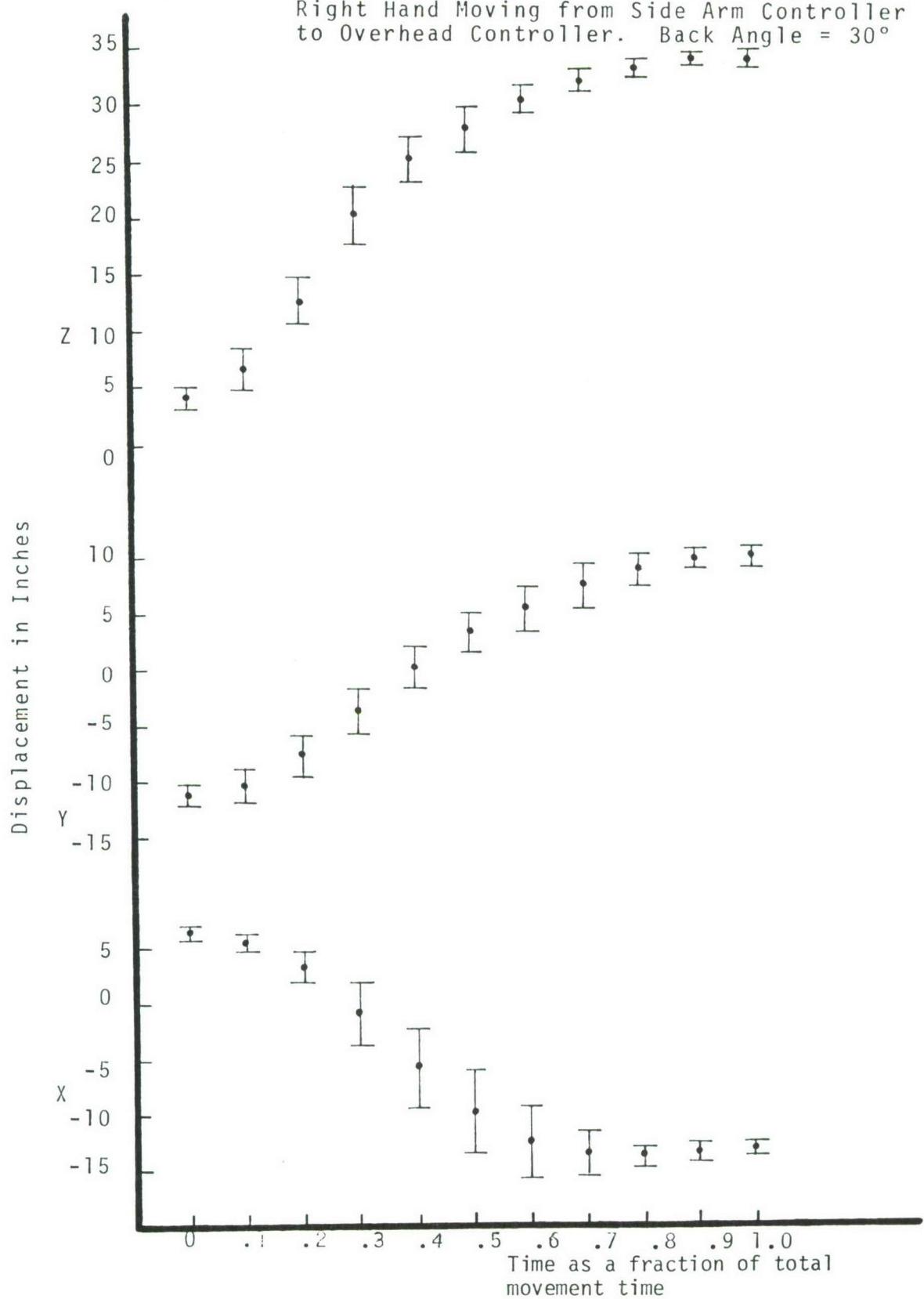


Fig. A-15. Time-Displacement Profiles for Grip Center--Right Hand moving from Side Arm Controller to Panel Controller. Back Angle = 30°

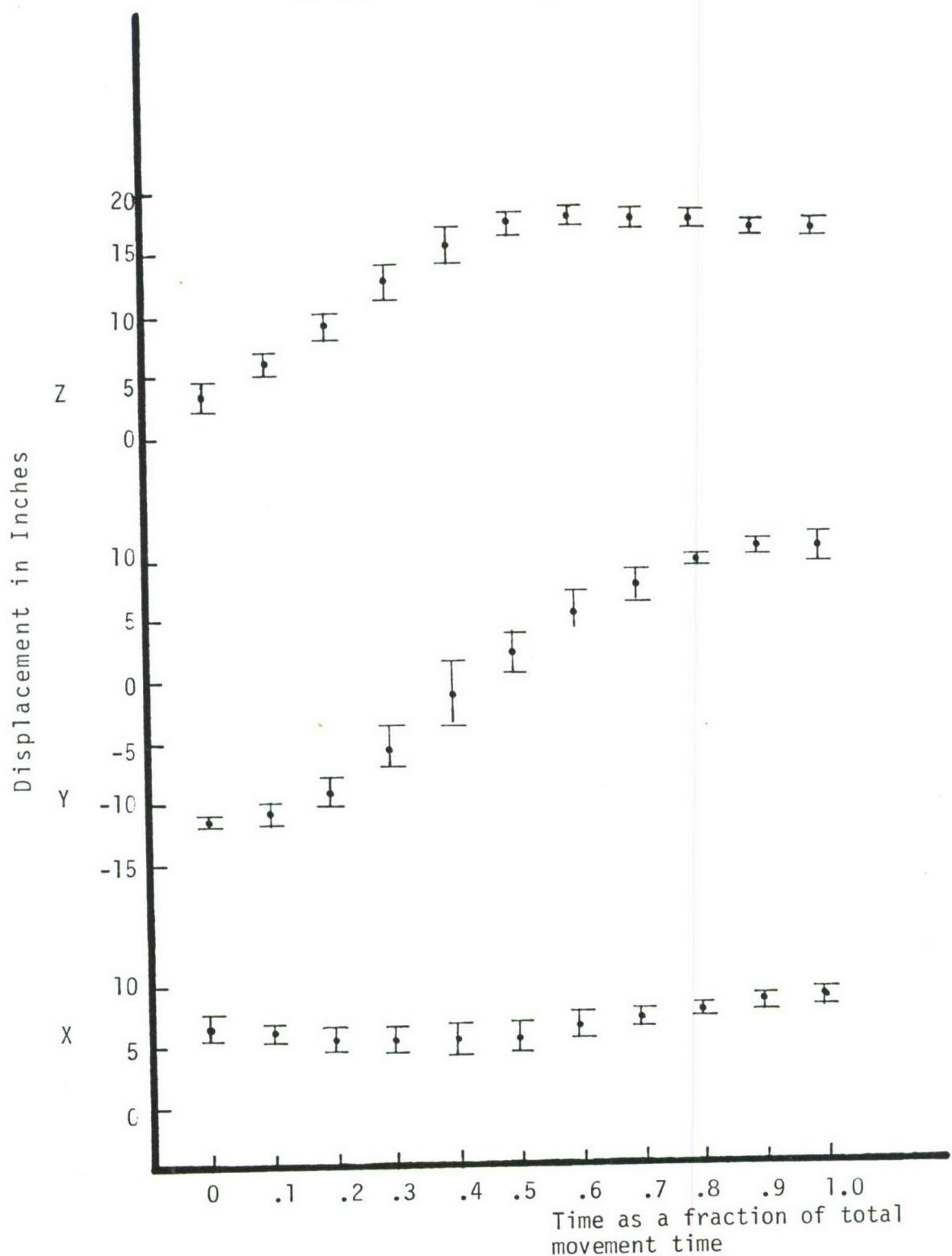


Fig. A-16. Time-Displacement Profiles for Grip Center--
Hand Moving from Throttle to Overhead Controller.
Back Angle = 65°

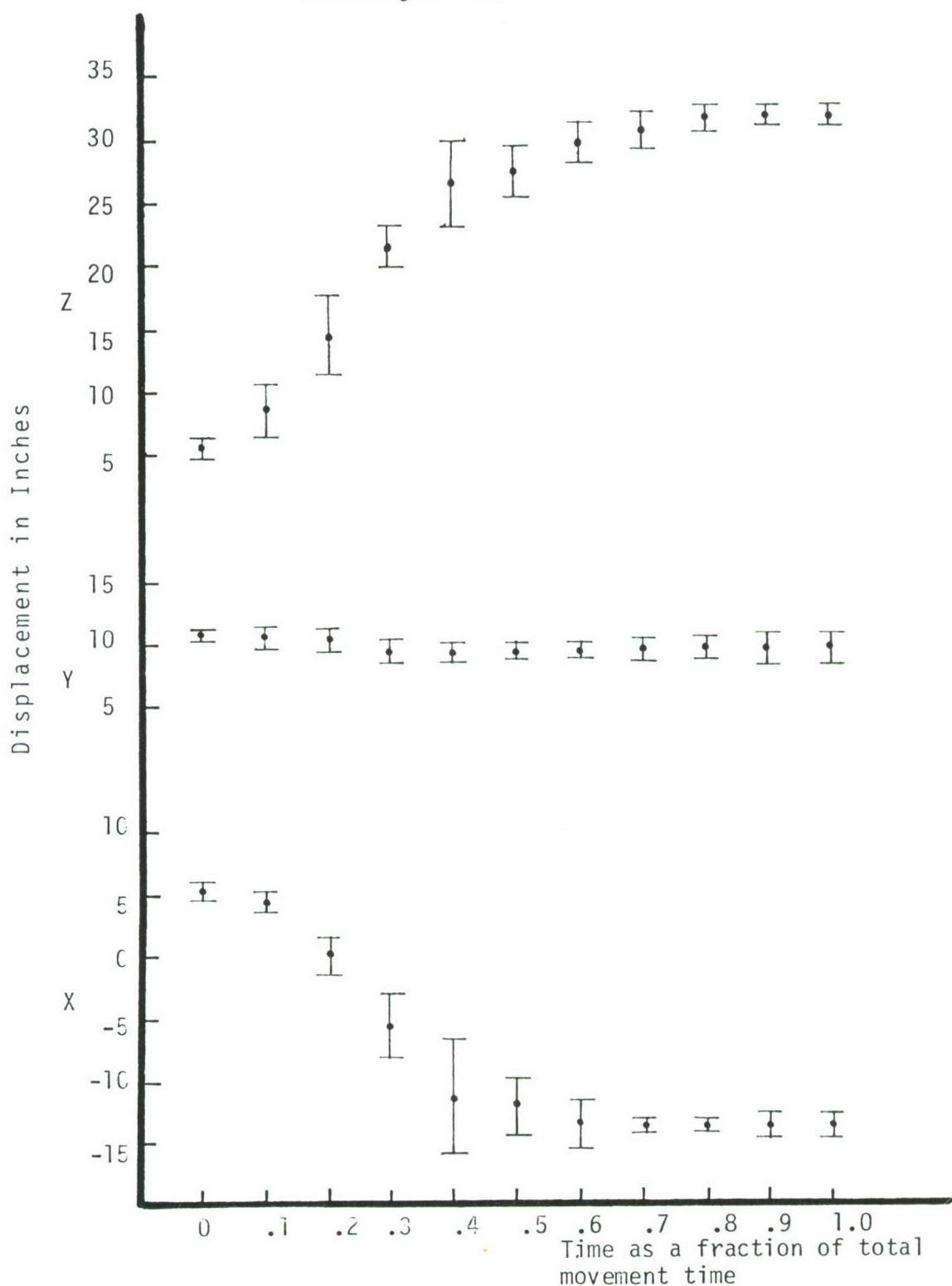


Fig. A-17. Time Displacement Profiles for Grip Center--
Right Hand Moving from Side Arm Controller to
Overhead Controller. Back Angle = 65°

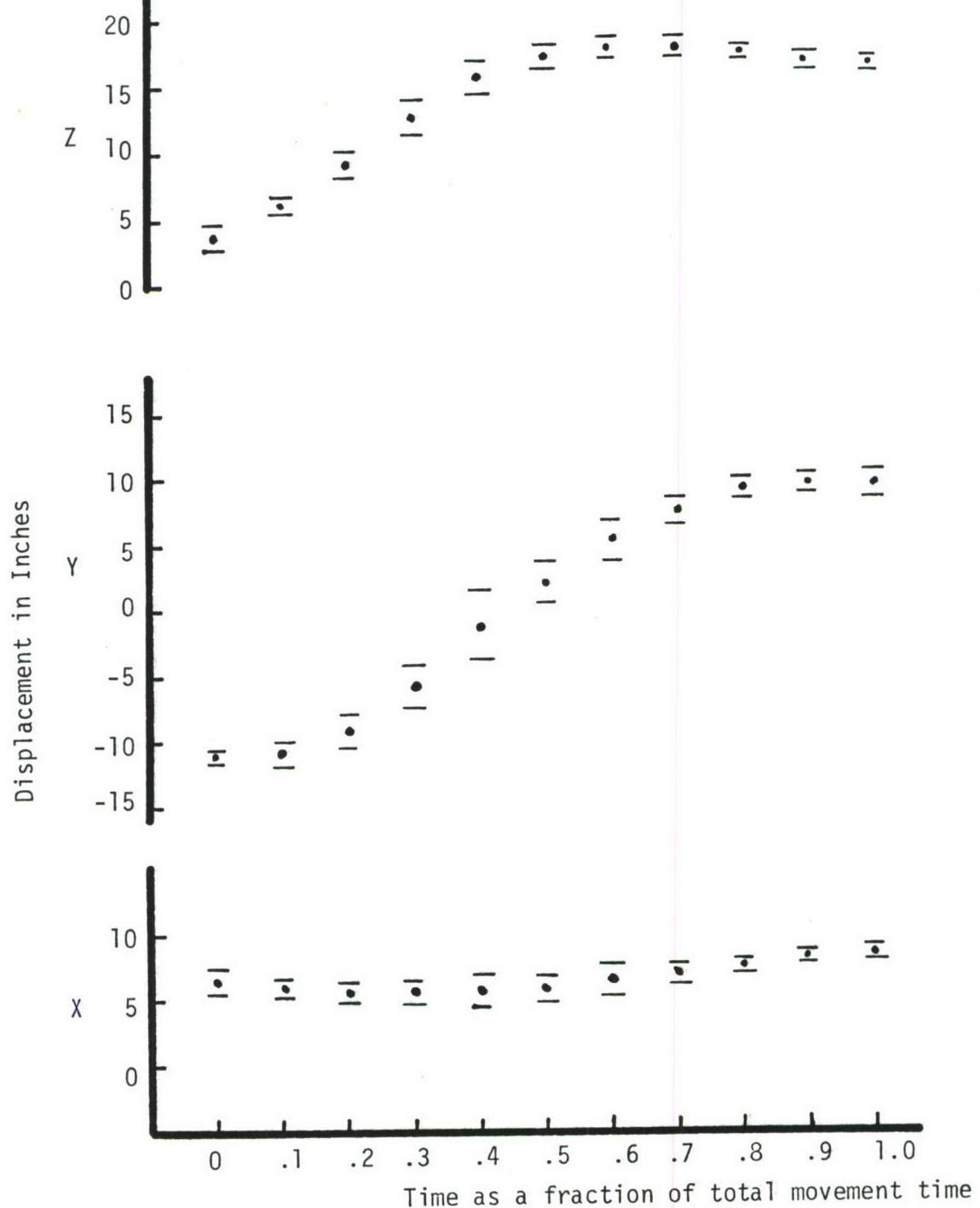


Fig. A-18. Time-Displacement Profiles for Left Grip Center--
Movement is from Throttle to Stick Controller.
Back Angle = 13°

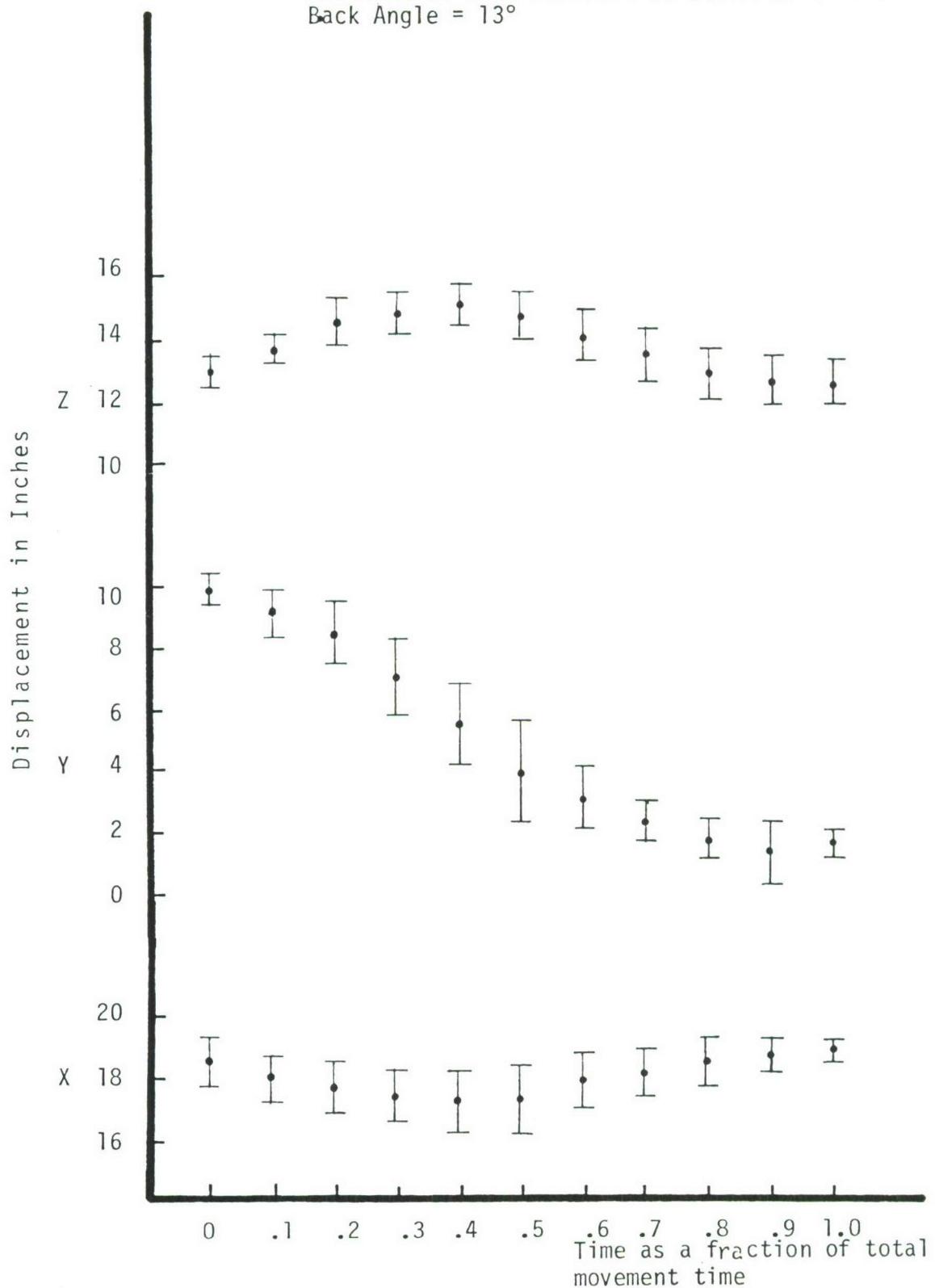


Fig. A-19. Time Displacement Profiles for Left Elbow
Center--Movement is from Throttle to Stick
Controller. Back Angle = 13°

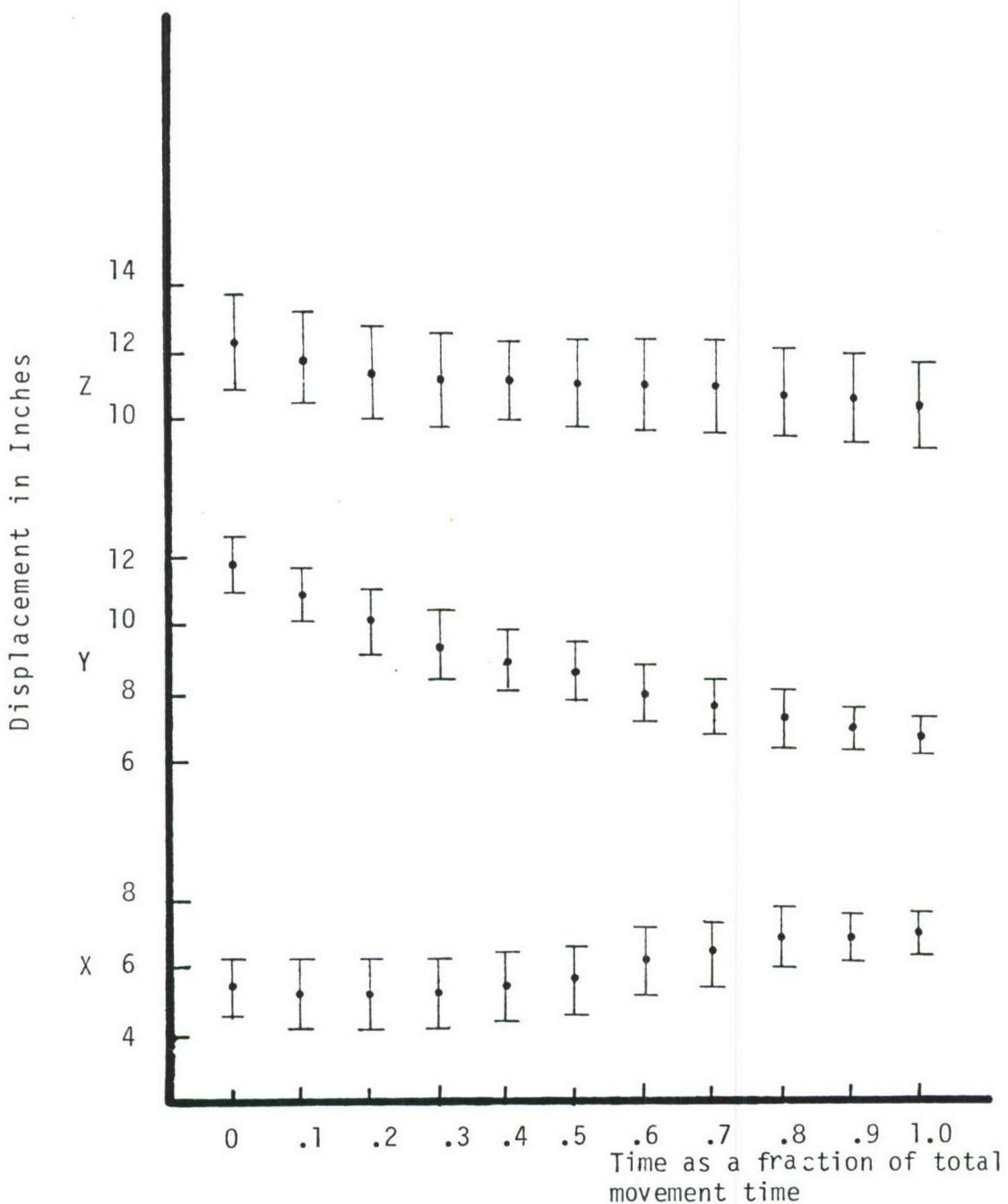


Fig. A-20. Time-Displacement Profile for Left Shoulder
Center--Movement is from Throttle to Stick Con-
troller. Back Angle = 13°

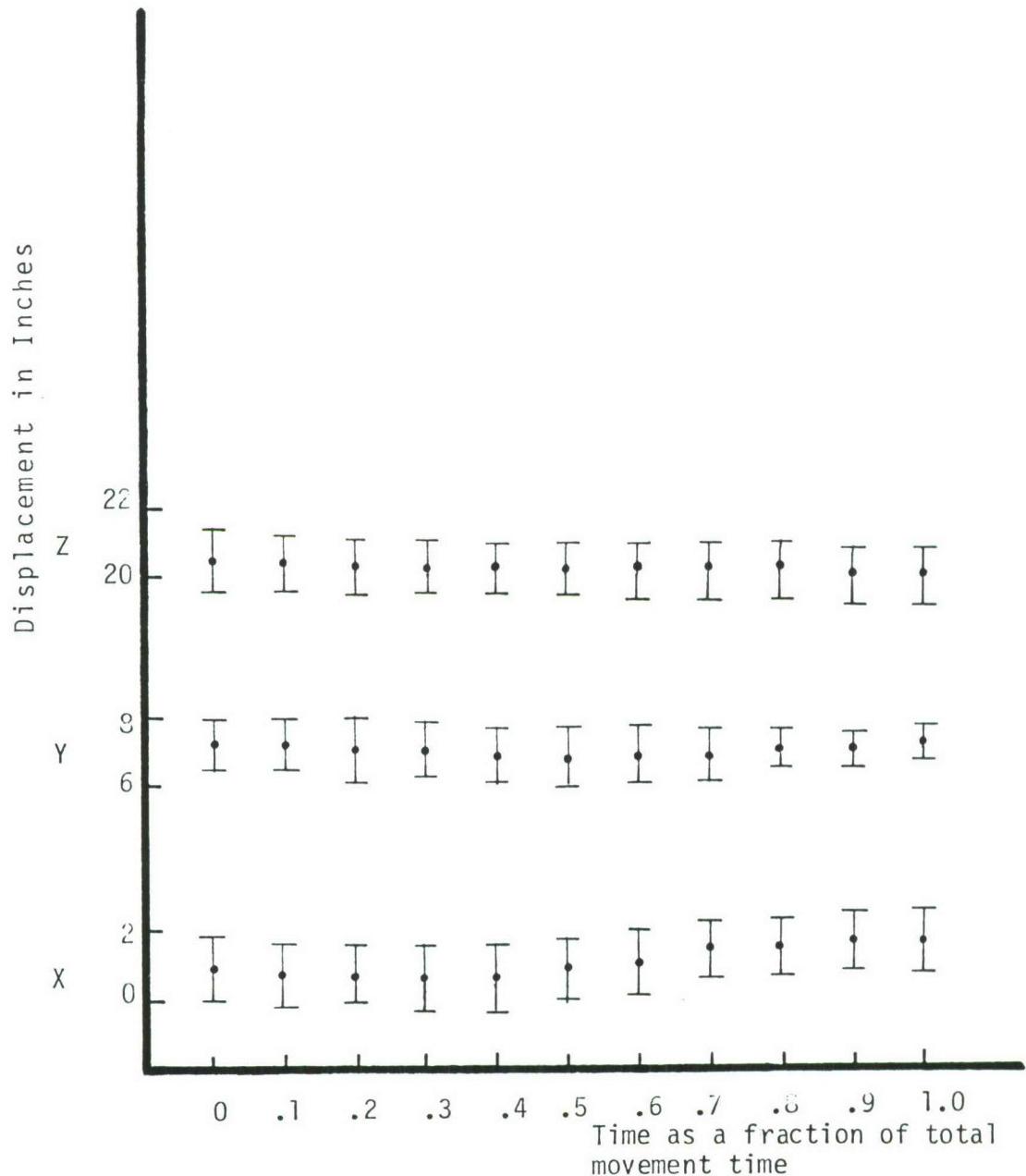


Fig. A-21. Time-Displacement Profiles for Left Grip Center--
Movement is from Throttle to Stick Controller.
Back Angle = 30°

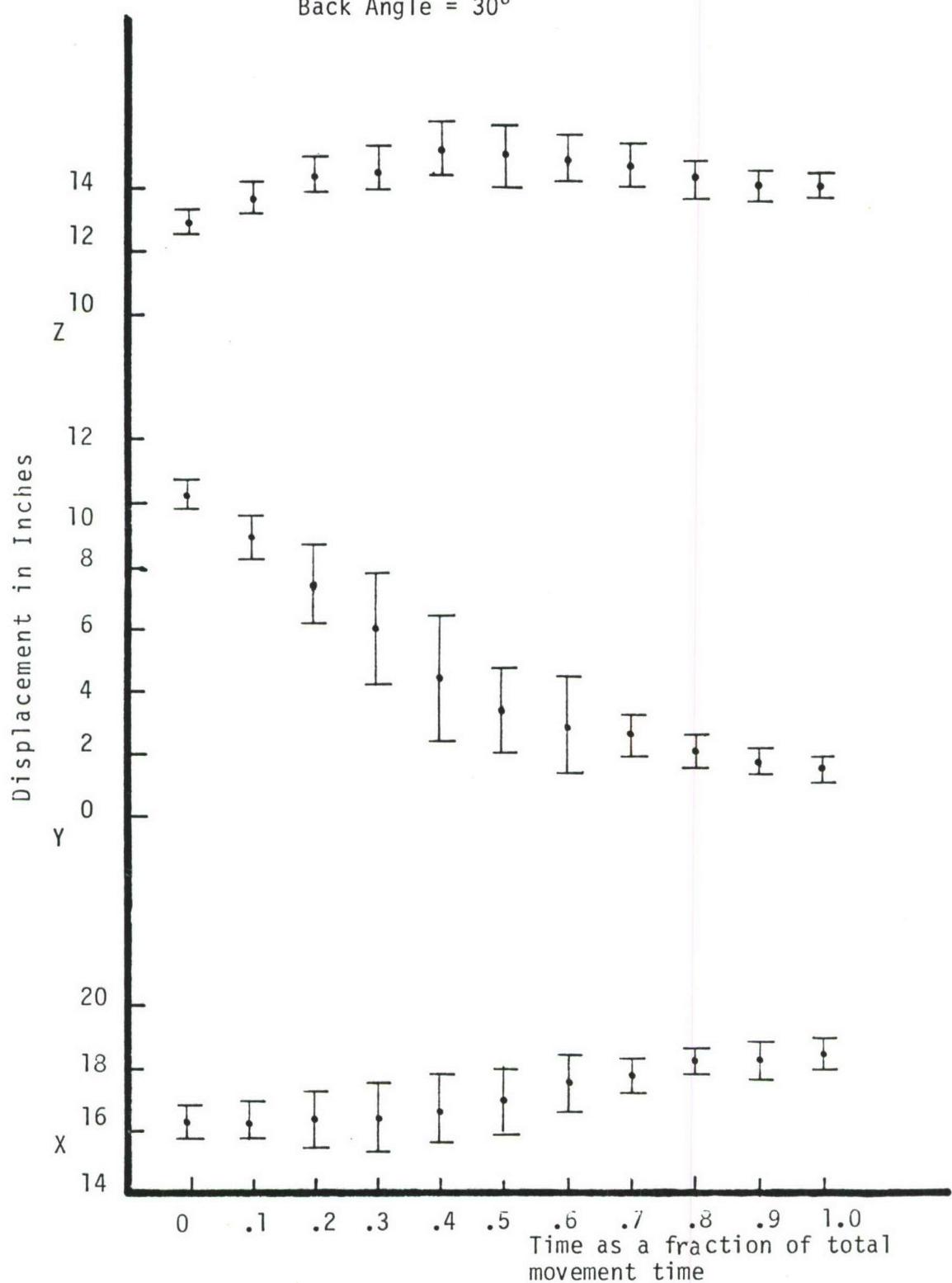


Fig. A-22. Time-Displacement Profiles for Left Elbow Center--
Movement is from Throttle to Stick Controller.
Back Angle = 30°

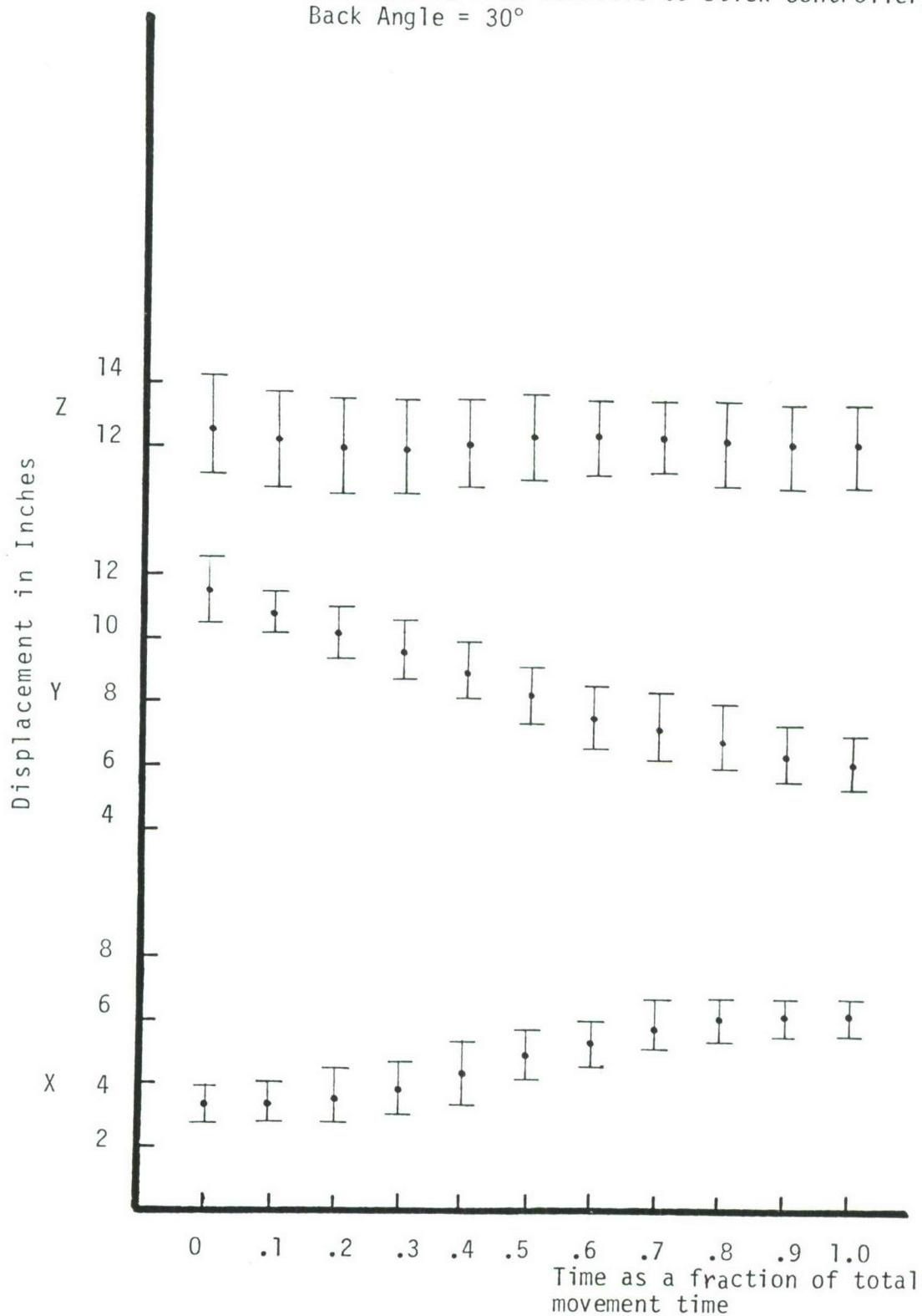
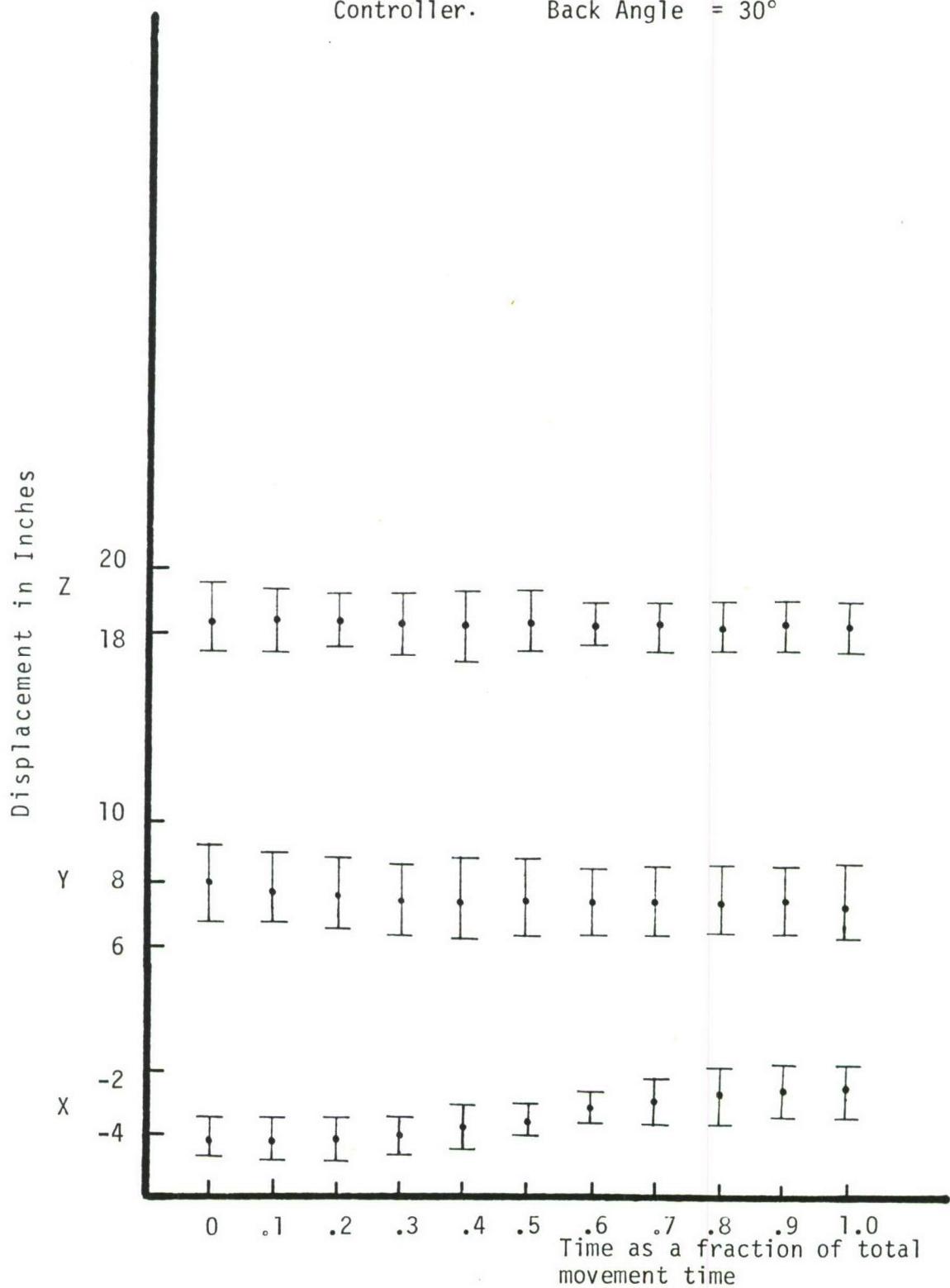


Fig. A-23. Time-Displacement Profiles for Left Shoulder
Center--Movement is from Throttle to Stick
Controller. Back Angle = 30°



APPENDIX B
PATHS OF MOVEMENT DATA

PATHS OF MOVEMENT TABLES

The following pages contain the essential results of this investigation in tabular form. Each movement is described at the beginning of each set of data indicating the starting and ending points (locations of controller) and the hand that performed the movement. The next page contains a summary of time history of the movement and is followed by the data on paths of movement of the various body surface landmarks and/or joint centers. The data are presented as coordinates of each point of interest at successive time intervals of 1/10th the total movement time for forward or return phase. The x, y, and z coordinates are given with respect to the seat reference point (SRP) as origin. For each coordinate the standard deviation, the 5th and 95th percentile limits are presented (all linear measurements are in inches). The tabulated data also give the successive incremental distances and the cumulative displacements moved for each landmark.

The 5th and 95th percentile limits were obtained using mean values \pm 1.645 times the respective standard deviations. It was assumed that the sample mean is an acceptable estimate of the population mean. Also the standard deviation of the population is related to the standard deviation of the sample according to the following:

$$\sigma = \sqrt{\frac{n}{n-1}} s$$

where

σ = population standard deviation

s = sample standard deviation

n = sample size (when less than 30)

The above procedure for determining percentile values implies that the population distribution was assumed to be normal. Also referring to Table 5, it can be seen that the present sample compares favorably with the 1967 USAF survey data in most anthropometric variables measured. The small size of 7 makes it difficult to make any statements regarding the skewness of the distributions of these variables. As already stated, it was assumed that the locations (x , y , and z coordinates) of the various body landmarks are distributed in space according to normal distribution.

DATA FOR 13° BACK ANGLE CONFIGURATION

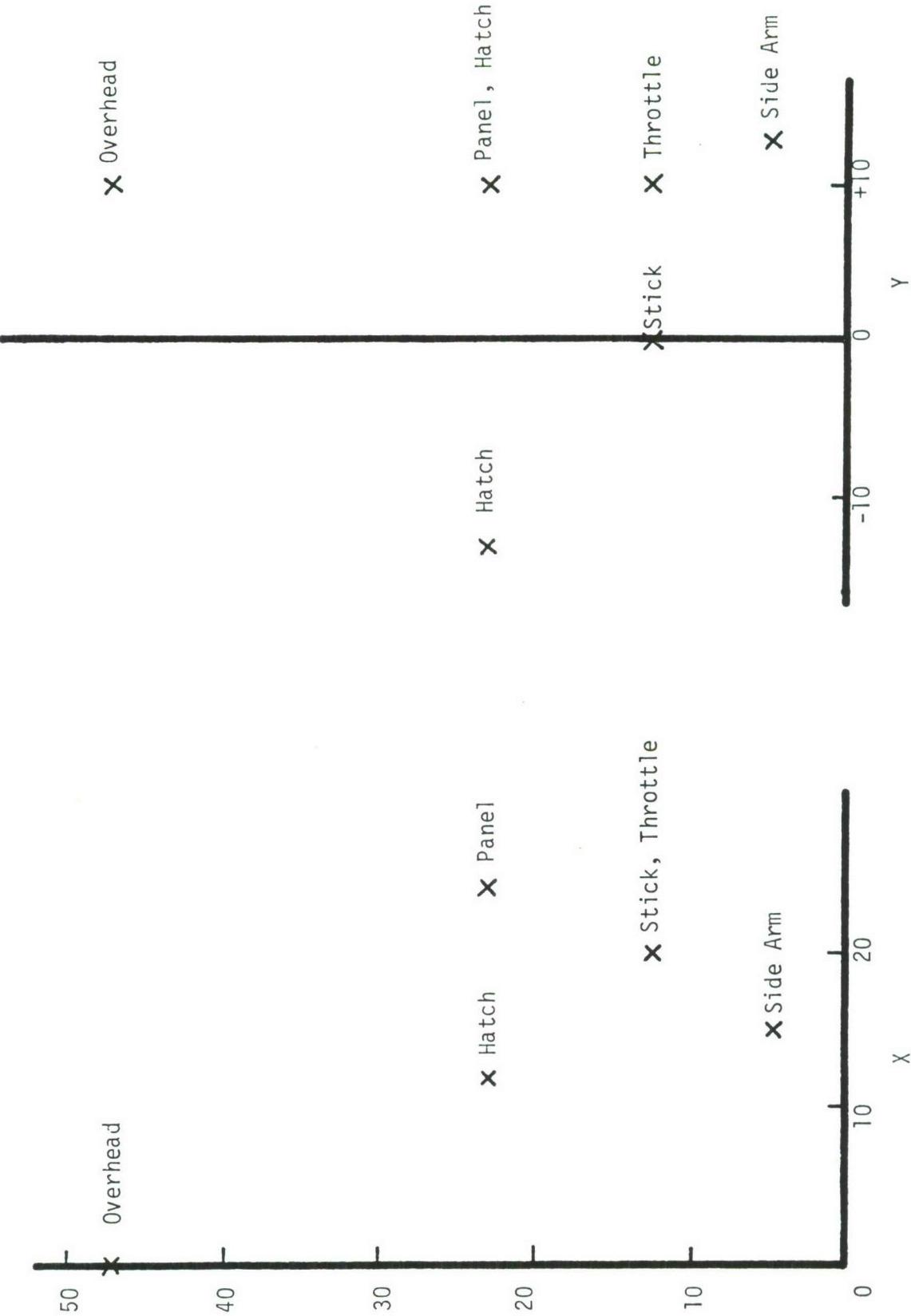


Fig. A-24. Controller Locations for 13° Back Rest Angle.

MOVEMENT: RIGHT HAND MOVES FROM STICK CONTROLLER AT +20.0, 0.0, +12.4 TO OVER-HEAD CONTROLLER AT 0.0, +10.0, +47.3 AND RETURNS. THIS MOVEMENT IS PRECEDED BY LEFT HAND MOVING FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO STICK CONTROLLER AND IS FOLLOWED BY LEFT HAND RETURNING BACK TO STICK CONTROLLER.

MOTION NUMBER = 11130
BACK ANGLE = 13

SUB-MOVEMENT	TIME DATA		
	MEAN	STD DEV	RANGE
RGHT FWD	1.06	0.26	0.30 TO 1.50 SECS.
RGHT REV	0.94	0.19	0.70 TO 1.30 SECS.

LANDMARK - NASION

(1)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)							
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
0.0	T SIZE, N	6.34	2.19	9.93	1.41	1.20	0.56	3.37	30.55	1.86	21.49	33.60	0.0	0.0	0.0	0.0	0.0		
0.10	F	4.49	2.57	0.27	6.71	2.16	-3.34	3.22	31.25	2.34	27.42	35.08	2.32	2.32	2.32	2.32	2.32		
0.20	R	3.64	2.98	-1.25	8.52	0.75	2.31	-3.03	4.53	31.52	2.26	27.81	33.23	1.05	1.05	1.05	1.05	1.05	
0.30	E	2.67	3.20	-2.57	7.92	1.38	2.04	-1.97	4.73	31.34	1.61	28.86	34.81	1.19	1.19	1.19	1.19	1.19	
0.40	R	1.59	3.17	6.78	1.94	1.98	-1.30	5.18	32.16	1.19	30.21	34.11	1.26	1.26	1.26	1.26	1.26		
0.50	W	0.36	2.59	-3.89	4.61	2.54	1.72	-0.28	5.36	32.43	1.05	30.71	34.15	1.39	1.39	1.39	1.39	1.39	
0.60	A	-0.58	2.18	-4.16	2.99	3.07	1.62	0.42	5.73	32.50	1.06	30.76	34.24	1.09	1.09	1.09	1.09	1.09	
0.70	R	-1.46	1.63	-4.13	2.60	1.84	1.73	0.70	6.38	32.55	1.01	30.90	34.20	0.99	0.99	0.99	0.99	0.99	
0.80	D	-1.93	1.58	-4.53	0.66	4.04	1.70	1.26	6.83	32.45	1.08	30.68	34.21	1.07	1.07	1.07	1.07	1.07	
0.90	R	-2.08	1.76	-4.96	0.80	4.48	1.65	1.77	7.18	32.29	1.28	30.19	34.38	0.68	0.68	0.68	0.68	0.68	
1.00	R	-2.14	1.91	-5.26	0.99	5.20	1.55	2.66	7.74	32.20	1.35	29.98	34.42	0.73	0.73	0.73	0.73	0.73	
0.0	U	7	-2.14	1.91	-5.26	0.99	5.20	1.55	2.66	7.74	32.20	1.35	29.98	34.42	0.0	0.0	0.0	0.0	0.0
0.10	U	7	0.44	3.24	-4.88	5.75	5.07	1.60	2.45	7.69	31.54	1.28	29.54	33.74	2.64	2.64	2.64	2.64	2.64
0.20	R	7	1.74	3.05	-3.26	6.74	4.80	2.30	3.30	31.23	1.46	28.83	33.63	1.39	1.39	1.39	1.39	1.39	
0.30	T	2.60	2.71	-1.84	7.04	4.48	1.59	1.87	7.08	31.08	1.68	28.33	33.83	0.93	0.93	0.93	0.93	0.93	
0.40	E	3.19	2.48	-0.87	7.25	4.34	1.71	1.54	7.14	30.93	1.90	27.82	34.05	0.62	0.62	0.62	0.62	0.62	
0.50	T	3.90	2.38	0.38	7.80	4.11	1.88	1.03	7.19	30.89	1.95	27.70	34.09	0.75	0.75	0.75	0.75	0.75	
0.60	U	4.48	2.25	0.79	8.17	3.68	1.93	0.52	6.84	30.82	1.96	27.60	34.04	0.73	0.73	0.73	0.73	0.73	
0.70	R	5.19	2.43	1.21	9.17	3.05	1.63	0.38	5.73	30.51	2.02	27.30	33.92	0.96	0.96	0.96	0.96	0.96	
0.80	N	5.59	2.15	2.07	9.12	2.31	1.34	0.11	4.52	30.51	2.00	27.33	33.89	0.84	0.84	0.84	0.84	0.84	
0.90	R	6.00	2.06	2.63	9.37	2.07	1.86	0.12	3.84	30.55	1.77	27.66	33.45	0.61	0.61	0.61	0.61	0.61	
1.00	R	6.34	2.19	2.76	9.93	1.41	1.20	-0.56	3.37	30.55	1.86	27.49	33.60	0.57	0.57	0.57	0.57	0.57	

LANDMARK - CERVICALE

(2)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	-0.97	0.87	-2.40	0.47	0.23	0.50	-0.59	1.05	24.08	1.21	22.09	26.06	0.0	0.0	0.0	0.0	0.0
0.10	F	-1.36	1.27	-3.44	0.73	0.24	1.06	-1.51	1.99	23.79	1.13	21.93	25.65	0.49	0.49	0.49	0.49	0.49
0.20	R	-1.64	1.54	-3.78	1.26	0.59	1.43	-1.75	2.93	23.73	1.06	21.99	25.47	0.37	0.37	0.37	0.37	0.37
0.30	O	-1.92	1.34	-4.11	0.73	1.65	1.97	3.43	2.93	23.54	1.18	21.70	25.58	0.42	0.42	0.42	0.42	0.42
0.40	R	-1.92	1.34	-4.11	0.73	1.10	1.71	-1.71	3.90	23.59	1.19	21.64	25.53	0.46	0.46	0.46	0.46	0.46
0.50	W	-2.46	1.23	-4.49	-0.44	1.38	1.82	-1.61	4.37	23.65	1.04	21.94	25.35	0.62	0.62	0.62	0.62	0.62
0.60	A	-2.76	1.25	-4.81	-0.70	1.56	1.91	-1.57	4.68	23.34	1.04	22.56	27.12	0.40	0.40	0.40	0.40	0.40
0.70	R	-2.76	1.13	-4.61	-0.91	2.11	1.96	-1.10	5.33	24.04	1.21	22.02	26.00	0.58	0.58	0.58	0.58	0.58
0.80	D	-2.94	1.01	-4.59	-1.28	2.26	1.93	-0.91	5.43	24.44	1.11	22.18	25.82	0.23	0.23	0.23	0.23	0.23
0.90	O	-3.11	1.20	-5.08	-1.14	2.54	1.85	-0.50	5.58	24.04	1.17	22.12	25.96	0.33	0.33	0.33	0.33	0.33
1.00	R	-3.12	1.15	-5.01	-1.23	2.81	1.75	-0.06	5.68	23.97	1.23	21.96	25.98	0.28	0.28	0.28	0.28	0.28
0.0	T	-3.12	1.15	-5.01	-1.23	2.81	1.75	-0.06	5.68	23.97	1.23	21.96	25.98	0.0	0.0	0.0	0.0	0.0
0.10	R	-2.61	1.03	-4.29	-0.92	2.71	1.73	-0.12	5.55	24.09	1.21	22.10	26.07	0.53	0.53	0.53	0.53	0.53
0.20	R	-2.65	1.10	-4.46	-0.85	2.84	1.80	-0.11	5.78	24.16	1.48	21.73	26.59	0.15	0.15	0.15	0.15	0.15
0.30	R	-2.42	1.06	-4.15	-0.69	3.06	1.70	0.27	5.84	23.96	1.28	21.86	26.06	0.38	0.38	0.38	0.38	0.38
0.40	E	-2.54	1.17	-4.46	-0.62	2.70	1.70	-0.08	5.69	24.05	1.19	22.09	26.01	1.45	1.45	1.45	1.45	1.45
0.50	T	-2.14	1.09	-3.92	-0.36	2.23	1.40	-0.07	4.52	24.18	1.04	22.47	25.89	0.64	0.64	0.64	0.64	0.64
0.60	U	-1.71	0.80	-3.01	-0.40	1.82	1.07	0.07	3.57	24.35	0.93	22.83	25.89	0.62	0.62	0.62	0.62	0.62
0.70	R	-1.37	0.55	-2.26	-0.47	1.38	0.84	0.01	2.75	24.27	1.05	22.54	25.99	0.57	0.57	0.57	0.57	0.57
0.80	N	-1.16	0.59	-2.12	-0.20	0.98	0.67	-0.12	2.07	24.14	1.08	22.36	25.92	0.47	0.47	0.47	0.47	0.47
0.90	R	-1.01	0.61	-2.02	-0.04	0.53	0.59	-0.44	1.50	24.18	1.13	22.33	26.04	0.47	0.47	0.47	0.47	0.47
1.00	R	-0.97	0.87	-2.40	0.47	0.23	0.50	-0.59	1.05	24.08	1.21	22.09	26.06	0.32	0.32	0.32	0.32	0.32

LANDMARK - SUPRASENTRALE (3)

TIME	SAMPLE SIZE, N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T 0.0	7	4.226	0.83	2.90	5.62	-0.06	0.62	-1.07	0.95	22.60	0.81	21.27	23.92	0.0	0.0	0.0	0.0
F 0.10	7	3.60	1.40	5.81	0.06	1.13	-1.80	1.91	22.55	1.07	20.88	24.41	0.67	0.67	0.67	0.67	
R 0.20	7	3.54	1.57	0.96	6.11	0.58	1.34	-1.63	2.78	22.38	0.95	21.31	24.44	0.57	1.24	1.24	1.24
O 0.30	7	3.35	1.64	0.66	6.04	0.74	1.53	-1.76	2.35	21.13	1.13	21.10	24.80	0.26	1.51	1.51	1.51
D 0.40	7	3.05	1.96	-0.16	6.27	0.93	1.71	-1.87	3.73	23.13	1.22	21.14	25.13	0.39	1.90	1.90	1.90
E 0.50	7	2.49	1.25	0.44	4.55	1.20	1.81	-1.76	4.17	23.35	0.95	21.80	24.90	0.66	2.55	2.55	2.55
A 0.60	7	2.02	1.44	-0.35	4.38	1.95	1.82	-1.03	4.94	23.77	0.74	22.55	24.99	0.98	3.54	3.54	3.54
R 0.70	7	1.66	1.45	-0.12	4.04	2.27	2.07	-1.13	5.67	23.83	0.91	22.34	25.31	0.48	4.02	4.02	4.02
D 0.80	7	1.29	1.20	-0.67	3.25	2.90	1.81	-0.07	5.86	23.94	0.94	22.40	25.48	0.74	4.76	4.76	4.76
N 0.90	7	1.14	1.57	-1.43	3.71	3.35	1.84	0.34	6.37	23.98	1.01	22.33	25.63	0.48	5.24	5.24	5.24
P 1.00	7	1.18	1.21	-0.80	3.16	3.53	1.67	0.79	6.27	24.99	0.94	22.55	25.63	0.21	5.45	5.45	5.45
U 0.0	7	1.18	1.21	-0.80	3.16	3.53	1.67	0.79	6.27	24.09	0.94	22.55	25.63	0.0	0.0	0.0	0.0
F 0.10	7	1.35	1.52	-1.15	3.85	3.36	2.01	0.06	6.67	24.44	0.98	22.42	25.64	0.25	0.25	0.25	0.25
R 0.20	7	1.75	1.52	-0.71	4.21	3.10	1.93	-0.07	6.27	23.81	0.90	22.33	25.29	0.53	0.78	0.78	0.78
O 0.30	7	2.09	1.32	-0.08	4.26	2.89	1.95	-0.30	6.08	23.77	1.17	21.85	25.70	0.40	1.17	1.17	1.17
E 0.40	7	2.31	1.30	0.18	4.44	2.57	1.95	-0.63	5.77	23.26	0.90	22.04	25.00	0.46	1.64	1.64	1.64
T 0.50	7	2.30	1.26	0.74	4.86	1.93	1.49	-0.52	4.37	23.24	0.84	21.87	24.62	0.86	2.49	2.49	2.49
U 0.60	7	3.65	0.89	2.18	5.11	1.46	1.20	-0.50	3.42	23.08	0.83	21.71	24.45	0.98	3.47	3.47	3.47
R 0.70	7	3.75	0.71	2.53	4.92	0.95	0.86	-0.46	2.36	22.94	0.72	21.75	24.12	0.55	4.01	4.01	4.01
N 0.80	7	3.95	0.62	2.94	4.96	0.51	0.73	-0.69	1.72	22.76	0.10	21.61	23.92	0.51	4.52	4.52	4.52
P 0.90	7	4.26	0.73	3.07	5.46	0.23	0.61	-0.77	1.23	22.72	0.85	21.32	24.13	0.42	4.94	4.94	4.94
U 1.00	7	4.26	0.83	0.90	5.62	-0.06	0.62	-1.07	0.96	22.60	0.81	21.27	23.92	0.32	5.26	5.26	5.26

LANDMARK - RT AGRICION (4)

TIME	SAMPLE SIZE, N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T 0.0	6	0.77	0.44	2.96	-7.58	0.39	-8.21	-6.94	22.20	1.18	20.27	24.14	0.0	0.0	0.0	0.0	
F 0.10	6	0.71	0.22	2.24	-7.80	0.54	-8.38	-6.91	22.34	1.29	20.19	24.43	0.73	0.73	0.73	0.73	
R 0.20	6	0.74	0.99	-0.88	2.36	-7.56	0.76	-8.82	-6.31	22.73	1.42	20.41	25.06	0.55	1.28	1.28	1.28
O 0.30	6	0.27	0.94	-1.28	1.81	-6.97	1.01	-8.63	-5.32	23.30	1.73	20.46	26.14	0.95	2.23	2.23	2.23
E 0.40	6	-0.22	1.09	-2.00	1.57	-6.38	1.39	-8.66	-4.11	23.94	1.95	20.74	27.14	1.00	3.23	3.23	3.23
T 0.50	6	-1.00	1.01	-2.65	0.65	-5.56	1.45	-7.94	-3.17	24.63	1.76	21.78	27.48	1.33	4.55	4.55	4.55
A 0.60	6	-1.63	1.36	-3.87	0.61	-4.70	1.49	-7.15	-2.25	25.18	1.45	22.79	27.56	1.20	5.75	5.75	5.75
R 0.70	6	-2.61	1.31	-4.76	-0.46	-3.94	-3.90	-6.22	-1.66	25.51	1.19	23.55	27.46	1.29	7.04	7.04	7.04
D 0.80	5	-2.83	1.52	-5.34	-0.34	-3.37	1.11	-5.18	-0.52	25.52	1.45	23.32	27.92	0.62	7.66	7.66	7.66
P 0.90	5	-2.93	1.71	-5.74	-0.12	-2.82	1.28	-6.28	-0.73	25.72	1.45	23.34	28.10	0.56	8.22	8.22	8.22
U 1.00	5	-2.93	1.43	-5.28	-0.58	-2.42	1.16	-4.31	-0.52	26.92	1.57	24.35	29.50	1.27	9.49	9.49	9.49
O 0.0	5	-2.93	1.43	-5.28	-0.58	-2.42	1.16	-4.31	-0.52	26.92	1.57	24.35	29.50	0.0	0.0	0.0	0.0
O.10	5	-2.66	1.54	-5.19	-0.13	-2.37	1.29	-4.49	-0.25	26.56	0.97	24.96	28.15	0.46	0.46	0.46	0.46
O.20	6	-2.57	1.57	-5.15	-0.00	-2.60	1.32	-4.77	-0.44	25.73	1.45	24.15	27.31	0.86	1.32	1.32	1.32
R 0.30	6	-2.07	1.72	-4.88	0.75	-2.96	1.51	-5.44	-0.48	25.57	1.00	24.03	27.31	0.62	1.95	1.95	1.95
E 0.40	6	-1.53	1.83	-4.59	1.42	-3.50	1.59	-6.11	-0.89	25.54	0.97	23.95	27.13	0.73	2.68	2.68	2.68
T 0.50	6	-0.52	1.50	-2.98	1.94	-4.59	1.33	-6.78	-2.41	25.03	0.95	23.48	26.59	1.61	4.29	4.29	4.29
U 0.60	6	0.56	1.01	-1.10	2.21	-5.74	1.02	-7.42	-4.06	24.23	1.02	22.56	25.90	1.77	6.06	6.06	6.06
R 0.70	6	1.21	0.52	0.35	2.06	-6.36	0.79	-7.66	-5.06	23.40	1.12	21.61	25.28	1.19	7.25	7.25	7.25
N 0.80	6	1.60	0.56	2.53	-6.97	0.52	-7.83	-6.11	22.94	1.25	20.86	24.96	0.91	8.15	8.15	8.15	
P 0.90	6	1.83	0.54	0.94	2.71	-7.32	0.42	-8.00	-6.63	22.54	1.18	20.57	24.45	0.57	8.73	8.73	8.73
U 1.00	6	1.70	0.77	0.44	2.94	-7.58	0.39	-8.21	-6.94	22.20	1.18	20.27	24.14	0.42	9.15	9.15	9.15

LANDMARK - RT GRIP CENTER (16)

TIME	SAMPLE SIZE,N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	7	19.37	0.83	18.01	20.73	-1.76	0.31	-2.27	9.5	12.85	0.57	11.92	13.79	0.0	0.0	0.0	0.0	
F	7	17.34	0.94	16.40	19.48	-3.07	0.63	-4.10	-2.04	13.50	1.72	10.83	16.48	2.10	2.13	2.10	2.13	
O	20	7	15.51	1.14	15.64	19.38	-3.41	0.86	-4.82	-2.00	16.54	3.96	10.02	23.00	2.91	5.00	2.91	5.00
R	40	7	15.77	1.83	12.76	18.76	-2.98	1.54	-5.50	-0.47	21.10	6.84	9.89	32.31	4.93	9.93	4.93	9.93
M	50	7	12.59	3.11	7.50	17.69	-2.06	3.03	-7.11	2.98	26.50	8.79	12.14	40.98	5.39	16.31	5.39	16.31
A	60	7	8.38	4.39	1.19	15.58	-0.94	4.20	-6.93	6.85	32.40	7.07	20.80	44.00	7.48	23.79	7.48	23.79
R	70	7	4.02	3.00	-1.56	9.59	-2.79	4.22	-4.13	9.70	37.32	4.33	30.22	44.42	7.16	30.95	7.16	30.95
D	80	7	-0.19	1.43	-2.52	2.15	5.55	3.79	-0.67	11.77	41.06	2.78	36.50	45.62	6.27	37.22	6.27	37.22
O	90	7	-3.12	2.35	-6.97	0.74	8.80	2.88	4.08	13.52	44.70	1.73	41.86	47.53	5.69	42.91	5.69	42.91
N	0.90	7	-1.84	1.37	-4.09	0.41	9.05	1.08	7.28	10.81	45.50	0.90	44.02	46.99	1.53	44.44	1.53	44.44
1.00	6	-1.20	1.30	-3.33	0.93	9.45	0.79	8.15	10.74	45.91	0.42	45.22	46.61	0.86	45.30	0.86	45.30	
0.0	6	-1.20	1.30	-3.33	0.93	9.45	0.79	8.15	10.74	45.91	0.42	45.22	46.61	0.0	0.0	0.0	0.0	
O.10	6	-1.29	1.37	-3.55	0.96	8.06	1.04	6.35	9.77	43.37	1.07	42.22	45.72	2.38	2.38	2.38	2.38	
O.20	6	-0.23	2.12	-3.71	3.25	5.83	1.33	3.65	8.02	41.49	1.18	39.55	43.43	3.51	5.89	3.51	5.89	
O.30	6	2.50	2.96	-2.35	7.35	3.33	2.01	0.02	6.63	39.46	1.26	37.00	41.11	4.43	10.32	4.43	10.32	
O.40	7	7.85	3.07	2.82	12.88	1.03	2.08	-2.37	4.43	30.33	1.36	32.81	37.26	7.07	17.40	7.07	17.40	
T	50	7	13.38	2.22	9.74	17.02	-1.53	1.53	-4.66	1.62	29.63	2.16	25.53	32.60	8.53	25.93	8.53	25.93
U	60	7	17.52	1.07	15.76	19.28	-3.16	2.01	-6.46	0.14	22.16	2.65	17.82	26.51	8.21	34.94	8.21	34.94
R	70	7	19.03	1.09	17.25	20.82	-2.97	1.02	-6.64	-1.31	16.54	2.29	12.88	20.40	5.73	39.87	5.73	39.87
N	80	7	19.33	0.93	17.80	20.85	-2.15	0.39	-2.80	-1.51	13.90	1.41	11.59	16.22	2.87	42.74	2.87	42.74
O	90	7	19.41	0.99	17.78	21.04	-1.74	0.32	-2.26	-1.22	13.02	0.56	12.10	13.95	0.98	43.72	0.98	43.72
1.00	7	19.37	0.83	18.01	20.73	-1.76	0.31	-2.27	-1.25	12.85	0.57	11.92	13.79	0.18	43.89	0.18	43.89	

LANDMARK - RT TROCHANTER (18)

TIME	SAMPLE SIZE,N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	7	4.09	1.07	2.33	5.84	-7.18	0.92	-9.29	-6.26	3.81	0.65	2.73	4.88	0.0	0.0	0.0	0.0	
O.10	7	3.81	0.70	2.66	4.96	-7.67	0.74	-8.89	-6.45	3.70	0.56	2.77	4.62	0.32	0.32	0.32	0.32	
O.20	7	3.75	1.27	1.66	5.84	-7.37	1.02	-9.04	-5.69	3.83	0.56	2.91	4.74	0.34	0.65	0.34	0.65	
O.30	7	3.85	0.91	2.36	5.34	-7.46	0.82	-8.81	-6.11	3.84	0.54	2.95	4.73	0.13	0.79	0.13	0.79	
O.40	7	4.01	0.82	2.67	5.35	-7.62	0.86	-9.03	-6.22	3.82	0.54	2.93	4.72	0.23	1.02	0.23	1.02	
W	50	7	3.78	0.64	2.74	4.82	-7.55	0.94	-9.08	-6.01	3.89	0.54	3.00	4.78	0.25	1.27	0.25	1.27
A	60	7	3.92	0.93	2.39	5.45	-7.47	0.90	-8.95	-5.99	3.91	0.54	3.02	4.79	0.16	1.43	0.16	1.43
R	70	7	3.87	0.77	2.62	5.13	-7.54	0.83	-8.91	-6.18	3.88	0.58	2.93	4.84	0.09	1.52	0.09	1.52
D	80	7	3.85	0.64	2.80	4.90	-7.47	0.82	-8.81	-6.13	3.99	0.61	2.99	4.99	0.13	1.65	0.13	1.65
O	90	7	4.03	0.96	2.46	5.60	-7.43	0.77	-8.70	-6.16	3.98	0.57	3.06	4.91	0.19	1.63	0.19	1.63
1.00	7	4.04	0.80	2.73	5.35	-7.41	0.77	-8.67	-6.15	4.01	0.57	3.07	4.95	0.03	1.87	0.03	1.87	
0.0	7	4.04	0.80	2.73	5.35	-7.41	0.77	-8.67	-6.15	4.04	0.57	3.07	4.95	0.0	0.0	0.0	0.0	
O.10	7	3.84	0.61	2.83	4.85	-7.41	0.95	-8.97	-5.65	3.94	0.50	3.12	4.76	0.21	0.21	0.21	0.21	
O.20	7	3.77	0.49	2.97	4.57	-7.55	0.70	-8.70	-6.40	3.91	0.53	3.04	4.79	0.16	0.37	0.16	0.37	
R	30	7	3.94	0.64	2.89	5.00	-7.50	0.84	-8.88	-6.12	4.00	0.50	3.19	4.82	0.20	0.57	0.20	0.57
E	40	7	3.99	0.84	2.62	5.36	-7.52	0.80	-8.84	-6.21	3.92	0.56	2.99	4.84	0.10	0.66	0.10	0.66
T	50	7	4.12	1.02	2.44	5.79	-7.66	0.80	-8.93	-6.34	3.95	0.51	3.01	4.68	0.20	0.87	0.20	0.87
U	60	7	4.30	1.20	2.33	6.27	-7.67	0.95	-9.22	-6.12	3.84	0.52	2.99	4.70	0.18	1.05	0.18	1.05
R	70	7	4.15	1.01	2.49	5.82	-7.66	1.05	-9.38	-5.94	3.86	0.58	2.91	4.80	0.14	1.19	0.14	1.19
N	80	7	4.05	1.02	2.38	5.72	-7.71	0.88	-9.15	-6.26	3.84	0.64	2.75	4.86	0.13	1.32	0.13	1.32
O	90	7	4.08	1.06	2.33	5.82	-7.65	0.91	-9.13	-6.16	3.86	0.60	2.87	4.84	0.08	1.40	0.08	1.40
1.00	7	4.09	1.07	2.33	5.84	-7.78	0.92	-9.29	-6.26	3.81	0.65	2.73	4.88	0.14	1.44	0.14	1.44	

LANDMARK - RT KNEE TOP (20)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE,N	19.51	1.10	17.70	21.31	-6.79	1.31	-8.94	-4.64	11.36	1.02	9.69	13.03	0.0	0.0	0.0	0.0	
0.0	7	19.51	1.14	17.61	21.35	-6.81	1.35	-9.02	-4.61	11.36	0.97	9.78	12.94	0.0	0.0	0.0	0.0	
F	0.20	7	19.48	1.12	17.64	21.32	-6.85	1.43	-9.19	-4.51	11.39	0.92	9.88	12.90	0.0	0.0	0.0	0.0
U	0.30	7	19.56	1.09	17.77	21.35	-6.77	1.33	-8.95	-4.58	11.41	0.87	9.98	12.84	0.12	0.21	0.12	0.21
R	0.40	7	19.64	1.12	17.80	21.24	-6.80	1.44	-9.17	-4.44	11.38	0.92	9.87	12.89	0.09	0.30	0.09	0.30
W	0.50	7	19.51	1.05	17.78	21.24	-6.78	1.40	-9.08	-4.47	11.45	0.90	9.92	12.88	0.13	0.43	0.13	0.43
A	0.60	7	19.66	1.19	17.70	21.62	-6.73	1.40	-9.03	-4.43	11.39	0.92	9.88	12.90	0.16	0.59	0.16	0.59
R	0.70	7	19.57	1.08	17.81	21.34	-6.75	1.49	-9.19	-4.30	11.45	0.93	9.91	12.96	0.10	0.69	0.10	0.69
D	0.80	7	19.60	1.12	17.76	21.44	-6.69	1.42	-9.01	-4.36	11.48	0.94	13.03	0.08	0.77	0.08	0.77	
U	0.90	7	19.74	1.31	17.58	21.89	-6.62	1.49	-9.07	-4.18	11.54	0.95	9.95	13.07	0.16	0.93	0.16	0.93
1.00	7	19.72	1.24	17.69	21.75	-6.55	1.45	-8.93	-4.16	11.44	0.95	9.88	12.99	0.11	1.03	0.11	1.03	
0.0	7	19.72	1.24	17.69	21.75	-6.55	1.45	-8.93	-4.16	11.44	0.95	9.88	12.99	0.0	0.0	0.0	0.0	
0.10	7	19.57	1.19	17.62	21.52	-6.59	1.53	-9.10	-4.09	11.46	0.98	9.87	13.06	0.16	0.19	0.16	0.19	
0.20	7	19.54	1.07	17.80	21.29	-6.29	1.41	-8.97	-4.33	11.42	0.99	9.80	13.05	0.08	0.24	0.08	0.24	
R	0.30	7	19.58	1.07	17.84	21.33	-6.61	1.48	-9.04	-4.18	11.54	0.93	9.97	13.03	0.10	0.33	0.10	0.33
E	0.40	7	19.59	1.32	17.43	21.76	-6.64	1.48	-9.07	-4.21	11.46	0.91	9.97	12.95	0.05	0.38	0.05	0.38
T	0.50	7	19.67	1.26	17.60	21.75	-6.72	1.31	-8.87	-4.57	11.45	0.90	9.94	12.91	0.12	0.50	0.12	0.50
U	0.60	7	19.65	1.16	17.74	21.56	-6.79	1.41	-9.09	-4.48	11.43	0.96	9.85	13.00	0.07	0.57	0.07	0.57
R	0.70	7	19.53	1.09	17.74	21.32	-6.72	1.33	-8.90	-4.54	11.39	0.96	9.82	12.96	0.14	0.71	0.14	0.71
N	0.80	7	19.41	1.12	17.57	21.24	-6.87	1.29	-8.99	-4.75	11.37	1.00	9.73	13.00	0.20	0.91	0.20	0.91
N	0.90	7	19.46	1.17	17.55	21.37	-6.77	1.35	-8.99	-4.55	11.38	0.98	9.77	12.99	0.12	1.03	0.12	1.03
1.00	7	19.51	1.10	17.70	21.31	-6.79	1.31	-8.94	-4.64	11.36	1.02	9.69	13.03	0.06	1.08	0.06	1.08	

LANDMARK - RT SHOULDER CENTER (22)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE,N	2.88	0.64	1.82	3.93	-7.46	0.62	-8.48	-6.43	19.59	0.69	18.56	20.82	0.0	0.0	0.0	0.0	
0.0	7	2.06	0.77	0.79	3.32	-7.48	0.60	-8.47	-6.49	19.80	1.24	17.76	21.84	0.83	0.83	0.83	0.83	
F	0.20	7	1.90	0.89	0.44	3.36	-7.36	0.93	-8.72	-5.67	20.27	1.29	18.15	22.39	0.57	1.40	0.57	1.40
U	0.30	7	1.79	0.77	0.53	3.04	-6.92	0.90	-8.41	-5.44	21.36	1.77	18.15	23.96	0.84	2.24	0.84	2.24
R	0.40	7	1.72	0.97	0.14	3.31	-6.60	1.17	-8.51	-4.68	22.29	2.23	18.64	25.94	1.27	3.51	1.27	3.51
W	0.50	7	1.32	1.03	0.36	3.01	-6.16	1.48	-8.73	-3.73	23.76	2.55	19.59	27.94	1.59	5.10	1.59	5.10
A	0.60	7	1.01	1.78	-1.91	3.94	-5.26	1.73	-8.10	-2.43	25.15	2.20	21.55	28.75	1.69	6.78	1.69	6.78
R	0.70	7	0.24	1.46	-2.16	2.63	-4.29	1.59	-6.90	-1.69	26.30	1.82	23.38	29.34	1.73	8.52	1.73	8.52
D	0.80	7	-0.46	1.17	-3.49	1.46	-3.48	1.18	-5.55	-1.55	26.67	1.86	23.82	29.92	1.70	9.70	1.70	9.70
U	0.90	7	-1.02	1.36	-3.25	1.21	-2.75	1.49	-6.54	-0.97	26.57	1.87	23.61	29.73	0.94	10.64	0.94	10.64
1.00	7	-1.03	1.41	-3.24	1.28	-2.48	0.78	-3.76	-1.20	26.64	1.79	23.68	29.54	0.28	10.92	0.28	10.92	
0.0	7	-1.03	1.41	-3.34	1.28	-2.48	0.78	-3.76	-1.20	26.64	1.79	23.68	29.54	0.0	0.0	0.0	0.0	
0.10	7	-0.36	1.48	-2.79	2.07	-2.82	1.37	-5.07	-0.58	27.32	1.56	24.46	29.58	0.65	0.85	0.65	0.85	
0.20	7	0.13	1.74	-2.71	2.96	-3.41	1.35	-5.62	-1.20	26.71	1.35	24.50	28.92	0.83	1.68	0.83	1.68	
R	0.30	7	0.89	1.79	-2.05	3.83	-4.09	1.28	-5.19	-0.19	26.10	1.09	24.31	27.89	1.18	2.87	1.18	2.87
E	0.40	7	1.48	2.00	-1.79	4.76	-4.71	1.52	-5.20	-2.22	24.04	0.76	23.57	26.05	1.55	4.42	1.55	4.42
T	0.50	7	2.26	1.87	-0.81	5.32	-5.69	1.02	-5.37	-4.02	23.13	0.86	21.72	24.54	6.51	8.02	6.51	8.02
U	0.60	7	2.54	1.40	0.25	4.84	-6.31	0.63	-7.35	-5.27	21.78	0.85	20.39	23.17	1.51	8.02	1.51	8.02
R	0.70	7	2.76	0.75	1.54	3.98	-6.65	0.55	-7.56	-5.74	20.84	0.85	19.40	22.19	1.06	9.09	1.06	9.09
N	0.80	7	2.83	0.76	1.59	4.07	-7.13	0.32	-7.65	-6.63	20.26	0.89	18.80	21.72	0.72	9.81	0.72	9.81
0.90	7	3.05	0.64	2.01	4.09	-7.29	0.46	-6.04	-6.54	19.73	0.82	18.58	21.27	0.43	10.24	0.43	10.24	
1.00	7	2.88	0.64	1.82	3.93	-7.46	0.62	-8.48	-6.43	19.69	0.69	18.56	20.82	0.34	10.55	0.34	10.55	

LANDMARK - RT ELBOW CENTER (24)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE, N	7.27	1.07	5.52	9.02	-6.78	0.64	-7.84	-5.73	10.76	1.84	7.73	13.78	0.0	0.0	0.0	0.0	
0.0		7	6.40	1.17	4.48	8.33	-8.07	1.24	-10.11	-6.04	11.14	1.78	8.23	14.06	1.60	1.60	1.60	1.60
F	0.20	7	6.81	1.59	4.20	9.42	-8.50	1.23	-10.52	-6.48	12.28	2.57	8.06	16.49	1.28	2.88	2.88	2.88
U	0.30	7	7.55	2.71	3.10	12.00	-8.64	0.77	-9.90	-7.37	15.56	5.17	7.08	24.05	3.37	6.25	3.37	6.25
R	0.40	7	8.49	3.81	2.24	14.74	-8.19	1.43	-10.54	-5.84	21.16	9.23	6.03	36.29	5.69	11.94	5.69	11.94
W	0.50	7	8.52	2.16	4.99	12.06	-7.55	2.00	-10.83	-4.27	23.99	8.00	10.88	37.11	2.91	14.85	2.91	14.85
A	0.60	7	7.42	2.53	3.27	11.56	-5.96	2.70	-10.40	-1.53	30.24	4.28	2.32	37.25	6.54	21.39	6.54	21.39
R	0.70	7	5.10	2.23	1.44	8.76	-4.01	2.93	-8.82	0.81	33.58	2.85	28.90	38.25	4.51	25.90	4.51	25.90
D	0.80	7	2.38	1.26	0.32	4.45	-1.61	1.99	-4.87	1.65	35.80	1.15	33.92	37.69	4.25	30.15	4.25	30.15
O	0.90	7	1.16	1.32	-1.00	3.32	-0.14	1.50	-2.59	2.31	36.39	0.78	35.11	37.66	2.00	32.15	2.00	32.15
I	1.00	6	1.55	0.68	0.43	2.67	0.71	0.90	-0.77	2.19	36.56	0.47	35.89	37.43	0.97	33.12	0.97	33.12
O	0	6	1.55	0.68	0.43	2.67	0.71	0.90	-0.77	2.19	36.56	0.47	35.89	37.43	0.97	33.12	0.97	33.12
O	1.0	6	2.84	1.11	1.02	4.65	-1.70	0.92	-3.20	-0.19	36.18	0.51	35.35	37.02	2.77	2.77	2.77	2.77
O	2.0	7	4.50	2.40	2.56	8.43	-3.26	1.29	-5.37	-1.15	34.53	0.49	33.34	35.72	2.82	5.59	2.82	5.59
R	0.30	7	7.17	2.36	3.31	11.03	-5.51	0.77	-6.78	-4.25	31.57	1.12	29.74	33.41	4.58	10.17	4.58	10.17
E	0.40	7	9.22	1.94	6.03	12.40	-7.45	0.76	-8.69	-6.21	26.18	1.83	23.17	29.19	6.08	6.25	6.08	6.25
T	0.50	7	9.39	2.03	6.07	12.72	-8.39	0.81	-9.72	-7.06	19.82	2.52	15.69	23.95	6.43	22.68	6.43	22.68
U	0.60	7	8.37	2.28	4.63	8.00	1.18	-9.93	-6.06	15.13	3.00	10.21	20.50	4.82	21.50	4.82	21.50	
R	0.70	7	7.66	1.69	4.90	10.43	-7.47	1.08	-9.25	-5.70	12.84	2.38	8.93	16.75	2.45	29.95	2.45	29.95
N	0.80	7	7.44	1.44	5.07	9.81	-7.15	1.05	-8.87	-5.44	11.56	2.08	8.25	15.08	1.24	31.19	1.24	31.19
O	0.90	7	7.38	1.27	5.30	9.47	-6.95	0.92	-5.45	11.05	11.83	8.04	14.05	0.65	31.84	0.65	31.84	
I	1.00	7	7.27	1.07	5.52	9.02	-6.78	0.64	-7.84	-5.73	10.76	1.84	7.73	13.78	0.35	32.20	0.35	32.20

LANDMARK - RT WRIST CENTER (26)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE, N	16.15	0.92	14.64	17.66	-3.32	0.55	-4.23	-2.42	12.36	0.83	11.01	13.71	0.0	0.0	0.0	0.0	
0.0	6	16.15	0.85	13.40	16.20	-4.11	0.88	-5.56	-2.67	13.36	1.70	10.27	15.86	1.72	1.72	1.72	1.72	
F	0.20	7	14.80	1.29	12.93	15.66	-1.13	1.07	-5.83	-2.38	16.13	4.07	9.46	22.80	3.11	4.82	3.11	4.82
U	0.30	7	13.26	1.09	11.47	15.05	-3.74	1.87	-6.82	-0.67	20.56	6.80	9.41	31.71	4.56	9.39	4.56	9.39
R	0.40	7	11.32	1.57	8.75	13.00	-3.53	2.75	-8.04	0.97	24.95	7.02	13.44	36.47	4.81	14.13	4.81	14.13
W	0.50	7	8.26	2.01	4.96	11.56	-1.48	3.23	-6.18	3.82	31.86	5.13	23.44	40.28	7.83	22.02	7.83	22.02
A	0.60	7	4.96	1.56	1.42	8.51	1.18	3.24	-4.14	6.49	36.50	2.35	32.75	40.46	6.36	28.38	6.36	28.38
R	0.70	7	1.98	1.50	0.48	4.44	3.45	3.13	-1.64	8.58	38.74	2.62	34.45	43.03	4.32	32.70	4.32	32.70
D	0.80	7	-0.35	0.97	-1.94	1.25	5.85	2.03	2.51	9.18	41.22	1.32	39.05	43.39	4.16	36.86	4.16	36.86
O	0.90	7	-0.83	1.35	1.30	1.39	7.25	1.13	5.39	9.11	42.54	0.75	41.75	43.77	1.99	38.85	1.99	38.85
I	1.00	7	-0.49	1.37	-2.74	1.76	7.72	0.77	6.46	8.98	42.98	0.38	42.35	43.61	0.72	39.57	0.72	39.57
O	0	7	-0.49	1.37	-2.74	1.76	7.72	0.77	6.46	8.98	42.98	0.38	42.35	43.61	0.72	39.57	0.72	39.57
O	1.0	7	0.50	1.23	-1.52	2.51	6.23	0.84	4.86	7.60	41.80	0.95	40.25	43.35	2.14	2.14	2.14	2.14
R	0.20	7	2.12	2.13	-1.37	5.60	4.17	1.00	2.53	5.81	39.75	1.45	37.37	42.12	3.33	5.47	3.33	5.47
R	0.30	7	4.65	2.69	0.24	9.05	1.65	1.26	-0.42	3.72	36.86	1.41	34.55	39.17	4.59	16.04	4.59	16.04
E	0.40	7	8.37	2.61	4.10	12.65	-0.73	1.22	-2.73	1.27	32.39	1.39	30.11	34.66	6.29	16.35	6.29	16.35
T	0.50	7	12.32	2.07	8.92	15.72	-2.80	1.26	-4.87	-0.73	26.49	2.22	22.85	30.14	7.39	23.74	7.39	23.74
U	0.60	7	14.80	1.74	11.95	17.65	-3.91	1.20	-5.87	-1.95	20.40	2.57	16.18	24.63	6.67	30.41	6.67	30.41
R	0.70	7	15.83	1.31	13.70	17.96	-4.68	0.91	-5.65	-2.65	15.57	2.24	12.00	19.35	4.85	35.25	4.85	35.25
N	0.80	6	16.15	1.21	14.17	18.13	-3.70	0.47	-4.47	-2.92	13.57	1.55	11.03	16.11	2.18	34.43	2.18	34.43
O	0.90	6	16.24	1.08	14.48	18.00	-3.42	0.67	-4.52	-2.32	12.53	0.86	11.23	14.04	0.98	38.41	0.98	38.41
I	1.00	6	16.15	0.92	14.64	17.66	-3.32	0.55	-4.24	-2.42	12.32	0.83	11.01	13.71	0.30	36.71	0.30	36.71

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +15.0, -13.0, +4.8 TO OVER-HEAD CONTROLLER AT 0.0, +10.0, +47.3 AND RETURNS. LEFT HAND REMAINS AT THROTTLE CONTROLLER AT +20.0, +10.0, +12.4.

MOTION NUMBER - 12130
BACK ANGLE - 43

SUB-MOVEMENT	TIME DATA		
	MEAN	STD DEV	RANGE
RGHT FWD	0.97	0.14	0.80 TO 1.20 SECS.
RGHT REV	1.07	0.15	0.90 TO 1.30 SECS.

LANDMARK - NASION (1)

TIME	SAMPLE SIZE, N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)				
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	INCR	CUM	
0.0	7	6.15	1.54	4.21	9.28	-3.83	1.78	-6.75	-0.92	28.31	1.51	25.83	30.78	0.0	0.0	
F	7	4.03	3.27	-1.34	9.39	0.86	1.00	-0.80	2.52	31.33	1.32	29.16	33.49	6.21	6.21	
O	20	7	2.63	2.98	-2.25	7.52	1.42	1.01	-0.24	3.07	32.07	1.37	29.75	34.25	1.65	7.85
O	30	7	1.29	2.58	-2.94	5.51	1.89	0.94	0.36	3.43	32.36	1.50	29.90	34.83	1.47	9.33
R	40	7	0.33	2.28	-3.71	3.77	2.29	1.32	0.13	4.46	32.53	1.64	29.94	35.32	1.34	10.67
W	7	0.50	0.84	-4.51	2.82	2.84	1.37	0.60	5.08	32.71	1.73	29.88	35.55	1.03	11.70	
A	60	7	-1.49	1.99	-4.75	1.78	3.12	1.63	0.45	5.78	32.56	1.53	30.15	35.17	0.70	12.41
R	70	7	-2.08	1.80	-5.02	0.87	3.61	1.66	0.89	6.33	32.51	1.43	30.25	34.96	0.77	13.18
D	80	7	-2.31	1.75	-5.18	0.56	3.95	1.77	1.04	6.86	32.42	1.44	30.06	34.78	0.45	13.63
O	90	7	-2.64	2.05	-5.80	0.91	4.49	1.68	1.74	7.24	32.48	1.39	30.20	34.77	0.56	14.19
1.00	7	-2.65	1.93	-5.82	0.52	4.67	2.01	1.37	7.95	32.36	1.34	30.16	34.56	0.30	14.49	
0.0	7	-2.65	1.93	-5.82	0.52	4.67	2.01	1.37	7.95	32.36	1.34	30.16	34.56	0.0	0.0	
0.10	7	0.57	2.69	-3.85	4.98	3.12	1.16	1.22	5.02	31.77	1.82	28.79	34.76	3.62	3.62	
U	20	7	1.85	2.48	-2.22	5.91	2.06	1.48	-0.37	4.49	31.45	2.11	28.00	34.91	1.69	5.31
K	30	7	2.84	0.74	-6.43	1.41	1.32	-1.06	3.27	31.00	2.21	27.38	34.62	1.45	6.76	
E	40	7	3.85	1.84	0.84	6.86	0.10	1.25	-1.96	2.15	30.45	1.89	27.35	33.54	1.53	8.29
T	50	7	4.84	1.58	2.25	7.42	-0.83	1.18	-2.77	1.13	29.88	1.65	27.18	32.58	1.47	9.76
U	60	7	5.76	1.34	3.56	7.97	-1.85	1.10	-3.65	-0.06	29.39	1.45	26.71	31.77	1.46	11.22
R	70	7	6.30	1.29	4.18	8.41	-2.91	1.28	-5.02	-0.81	28.95	1.37	26.71	31.19	1.27	12.49
N	80	7	6.52	1.39	4.24	8.60	-3.21	1.42	-5.53	-0.88	28.73	1.37	26.48	30.98	0.43	12.92
O	90	7	6.64	1.44	4.27	9.00	-3.71	1.65	-6.41	-1.01	28.31	1.36	26.08	30.54	0.67	13.59
1.00	7	6.75	1.54	4.21	9.28	-3.83	1.78	-6.75	-0.92	28.34	1.51	25.83	30.78	0.16	13.75	

LANDMARK - CERVICALE (2)

TIME	SAMPLE SIZE, N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	INCR	CUM		
0.0	7	-0.56	1.28	-2.65	1.54	0.11	1.00	-1.53	1.25	23.58	1.25	21.53	25.64	0.0	0.0		
O	10	7	-1.25	1.29	-3.36	0.86	0.36	0.47	-0.41	1.13	23.58	1.06	21.94	25.43	0.74	0.74	
F	20	7	-1.57	1.31	-3.72	0.58	0.56	0.61	-0.44	1.56	23.55	1.01	22.01	25.30	1.39	1.13	
O	30	7	-2.05	1.29	-4.17	0.17	0.08	0.89	0.59	-0.07	1.85	23.83	0.96	22.25	25.41	0.60	1.72
R	40	7	-2.28	1.29	-4.40	-0.17	1.24	0.57	0.31	2.17	23.79	0.98	22.19	25.40	0.43	2.15	
W	50	7	-2.36	1.14	-4.23	-0.50	1.47	0.85	0.08	2.85	23.75	1.03	22.05	25.45	0.24	2.40	
A	60	7	-2.58	1.10	-4.39	-0.78	1.59	1.12	-0.24	3.43	23.79	1.14	21.92	25.66	0.25	2.65	
R	70	7	-2.91	0.93	-4.43	-1.39	1.94	1.02	0.28	3.61	23.15	1.17	21.83	25.67	0.48	3.13	
D	80	7	-3.16	0.81	-4.38	-1.74	2.28	1.00	0.64	3.92	23.89	1.08	22.12	25.66	0.40	3.53	
O	90	7	-3.37	0.97	-4.66	-1.48	2.56	1.11	0.75	4.38	23.38	0.95	22.42	25.53	0.20	3.82	
1.00	7	-3.37	0.88	-4.81	-1.92	2.68	1.11	0.86	4.50	23.35	1.13	22.00	25.70	0.34	4.16		
0.0	7	-3.37	0.88	-4.81	-1.92	2.68	1.11	0.86	4.50	23.85	1.13	22.00	25.70	0.0	0.0		
O	10	7	-2.91	0.75	-4.13	-1.68	2.81	1.30	0.67	4.95	23.34	1.21	21.95	25.92	0.49	0.49	
F	20	7	-2.96	0.93	-4.49	-1.44	2.82	1.31	0.68	4.97	23.37	1.10	22.17	25.78	0.07	0.56	
O	30	7	-2.65	1.12	-4.48	-0.82	2.58	1.39	0.31	4.86	24.16	0.96	22.49	25.63	0.40	0.96	
R	40	7	-2.10	1.03	-3.79	-0.41	2.56	1.07	0.81	4.31	24.26	1.09	22.48	25.86	1.24	1.24	
E	50	7	-1.84	1.07	-3.57	-0.05	2.08	0.81	0.76	3.41	24.18	1.14	22.31	26.06	0.56	2.11	
U	60	7	-1.50	0.87	-2.73	0.14	1.56	0.67	0.47	2.66	23.22	1.04	22.21	25.63	0.78	2.89	
R	70	7	-1.02	0.64	-2.64	1.06	1.65	0.65	0.33	1.80	23.84	1.15	21.92	25.69	0.59	3.48	
N	80	7	-0.65	1.29	-2.76	1.47	0.57	0.63	-0.46	1.60	23.77	1.24	21.73	25.81	0.61	4.08	
O	90	7	-0.73	1.18	-2.66	1.20	0.12	0.92	-1.39	1.62	23.58	1.19	21.63	25.53	0.53	4.58	
1.00	7	-0.56	1.23	-2.65	1.54	1.00	-1.53	1.75	1.75	23.58	1.25	21.53	25.64	0.18	4.76		

LANDMARK - SUPRASTERNAL { 3 }

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T SIZE,N	2.99	1.23	0.98	5.00	-0.12	0.83	-1.48	1.24	22.64	1.28	20.31	24.51	0.0	0.0	0.0	0.0	
0.10	F	3.19	1.43	0.84	5.53	0.37	0.48	-0.44	1.15	22.24	1.40	19.35	24.53	0.55	0.55	0.55	0.55	
0.20	F	2.65	1.62	0.01	5.30	0.79	0.67	-0.32	1.89	22.44	1.00	20.26	24.53	0.70	0.70	1.25	1.25	
0.30	D	2.26	1.61	-0.37	4.90	1.13	0.67	0.04	2.22	20.59	1.36	20.46	24.92	0.60	0.60	1.85	1.85	
0.40	R	2.12	1.41	-0.19	4.43	1.25	0.72	0.07	2.44	22.87	1.35	20.65	25.09	0.25	0.25	2.10	2.10	
0.50	N	1.94	1.34	-0.25	4.14	1.77	0.85	0.37	3.17	22.86	1.65	20.15	25.57	0.55	0.55	2.65	2.65	
A	1.52	1.53	-1.16	3.85	2.21	1.03	0.52	3.90	23.22	1.65	20.51	25.93	1.70	1.70	3.32	3.32		
R	0.70	1.35	1.53	-1.00	3.86	2.58	1.00	0.95	4.21	23.54	1.26	21.54	25.69	0.57	0.57	3.92	3.92	
D	0.80	1.07	1.49	-1.37	3.51	2.99	0.73	1.78	4.19	23.77	1.26	21.70	25.84	0.51	0.51	4.44	4.44	
N	0.90	1.04	1.24	-0.99	3.07	3.31	0.87	1.88	4.73	23.32	1.19	21.87	25.77	0.33	0.33	4.76	4.76	
1.00	T	0.70	1.35	-1.51	2.91	3.53	0.97	1.94	5.12	23.56	1.12	21.83	25.50	0.44	0.44	5.20	5.20	
0.0	U	0.7	0.70	1.35	1.51	2.91	3.53	0.97	1.94	5.12	23.66	1.12	21.83	25.50	0.0	0.0	0.0	0.0
0.10	U	1.08	1.53	-1.44	3.59	3.13	0.90	1.66	4.61	23.79	1.25	21.74	25.84	0.57	0.57	3.92	3.92	
0.20	T	1.30	1.36	-0.93	3.53	2.71	0.79	1.40	4.01	23.79	1.32	21.62	25.96	0.48	0.48	1.03	1.03	
0.30	R	1.42	1.35	-0.80	3.63	2.44	0.94	0.90	3.98	23.56	1.33	21.29	25.63	0.44	0.44	1.49	1.49	
E	1.40	1.39	-0.48	4.09	2.08	0.58	1.12	3.04	23.34	1.20	21.36	25.31	0.54	0.54	2.03	2.03		
T	0.50	1.87	1.48	-0.26	4.60	1.39	0.70	0.25	2.53	23.19	1.21	21.11	25.09	0.62	0.62	2.85	2.85	
U	0.00	2.42	1.10	0.62	4.22	1.07	0.66	-0.04	2.15	22.89	1.16	21.00	24.79	0.45	0.45	3.32	3.32	
U	0.70	2.50	1.24	0.48	4.53	0.82	0.47	0.05	1.59	22.75	1.17	20.83	24.68	0.30	0.30	3.60	3.60	
N	0.80	2.56	1.25	0.81	4.91	0.39	0.91	-1.09	1.88	22.04	1.45	20.26	25.01	0.57	0.57	4.17	4.17	
U	0.90	2.93	1.07	1.18	4.69	-0.07	0.74	-1.27	1.14	22.88	1.32	20.32	24.65	0.49	0.49	4.66	4.66	
T	1.00	2.99	1.23	0.98	5.00	-0.12	0.83	-1.48	1.24	22.41	1.28	20.31	24.51	0.11	0.11	4.77	4.77	

LANDMARK - RT ACROMION

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
U.0	T SIZE,N	0.37	0.69	0.77	8.29	0.84	-6.67	-6.92	21.37	1.58	18.78	23.95	0.0	0.0	0.0	0.0	
0.10	F	0.23	1.04	-1.47	1.93	-7.57	0.57	-8.51	-6.62	22.33	0.80	21.01	23.65	1.21	1.21	2.19	2.19
0.20	F	-0.25	1.50	-2.71	2.22	-7.04	0.74	-8.26	-5.83	22.99	0.71	21.83	24.15	0.97	0.97	2.19	2.19
0.30	R	-0.92	1.68	-3.65	1.85	-6.60	1.03	-8.29	-4.90	23.77	0.87	22.33	25.20	1.11	1.11	3.29	3.29
R	0.40	1.27	1.95	-6.47	1.94	-6.03	1.35	-8.24	-3.81	24.39	0.96	22.82	25.96	0.92	0.92	4.21	4.21
M	0.50	2.13	-1.60	5.09	1.89	-5.20	1.61	-8.85	-2.55	25.11	1.07	23.35	26.87	1.15	1.15	5.36	5.36
A	0.60	2.32	2.08	-5.44	1.39	-4.26	1.84	-7.27	-1.24	25.20	0.99	24.04	27.28	1.17	1.17	6.53	6.53
R	0.70	2.58	1.85	-5.62	0.46	-3.64	1.71	-6.45	-0.83	25.94	0.95	24.36	27.46	0.87	0.87	7.40	7.40
D	0.80	2.86	1.64	-5.55	-0.16	-2.93	1.78	-5.84	-0.02	26.14	0.97	24.53	27.71	0.79	0.79	8.19	8.19
U	0.90	2.96	1.45	-5.34	-0.59	-2.52	1.73	-5.35	0.31	26.48	0.92	24.77	27.78	0.45	0.45	8.64	8.64
T	1.00	3.27	1.54	-5.80	-0.74	-2.23	1.55	-4.77	0.31	26.19	0.87	24.77	27.61	0.43	0.43	9.07	9.07
U.0	T	3.27	1.54	-5.80	-0.74	-2.33	1.55	-4.77	0.31	26.19	0.87	24.77	27.61	0.0	0.0	0.0	0.0
0.10	F	2.94	1.08	-1.16	-4.71	-2.35	1.74	-5.51	-0.51	26.14	0.94	24.59	27.69	0.36	0.36	0.36	0.36
0.20	T	3.05	1.31	-5.18	-0.91	-2.94	1.39	-5.22	-0.67	26.04	1.06	24.26	27.74	0.62	0.62	0.93	0.93
R	3.08	2.58	1.53	-5.05	-0.11	-3.92	1.24	-5.95	-1.88	25.50	1.12	23.83	27.50	1.13	1.13	2.11	2.11
E	0.40	1.88	1.29	-4.00	0.23	-5.05	1.02	-6.72	-3.38	24.94	1.14	23.04	26.78	1.53	1.53	3.46	3.46
E	0.50	1.43	1.06	-3.17	0.30	-6.13	0.75	-7.42	-4.94	24.04	1.04	22.52	25.64	1.47	1.47	5.11	5.11
U	0.60	1.97	1.34	-3.34	3.11	-6.06	1.85	-9.10	-3.02	23.30	0.78	22.07	24.64	1.51	1.51	6.62	6.62
R	0.70	0.02	1.24	-2.02	2.06	-7.03	0.88	-8.53	-5.64	22.38	1.11	20.86	24.51	1.23	1.23	7.65	7.65
N	0.80	1.42	1.73	-1.04	1.31	-7.92	0.62	-8.94	-6.90	22.10	1.48	19.73	24.58	0.99	0.99	8.64	8.64
U	0.90	0.53	0.61	1.12	-8.26	0.72	-9.43	-7.08	21.92	1.57	19.05	24.19	0.65	0.65	9.49	9.49	
T	0.37	0.69	-0.77	-8.23	1.50	-9.67	-6.92	-9.67	-6.92	21.37	1.58	18.78	23.95	0.28	0.28	9.77	9.77

LANDMARK - RT GRIP CENTER (16)

TIME	SAMPLE	(- - - X - CU-ORDINATE - - -)			(- - - Y - CU-ORDINATE - - -)			(- - - Z - CU-ORDINATE - - -)							
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
0.0	T	13.75	0.76	12.50	14.99	-1.369	0.79	-14.99	-12.40	4.54	1.05	2.92	6.36		
0.10	T	12.44	0.92	10.92	12.79	1.64	1.64	-15.48	-10.11	8.94	1.83	5.44	11.43		
U.20	T	11.10	2.87	6.40	15.80	-9.77	3.79	-15.98	-3.56	5.15	5.15	8.24	25.14		
0.30	T	9.53	5.27	0.90	18.17	-5.62	5.32	-11.34	3.10	25.84	9.13	10.87	40.82		
0.40	T	7.93	4.13	1.16	14.71	-2.63	3.04	-7.61	2.35	29.85	4.58	22.34	37.37		
0.50	T	6.66	4.92	1.16	4.11	2.00	2.69	-4.51	0.51	34.52	2.37	27.29	41.96		
0.60	T	1.80	3.37	-3.73	7.33	4.01	1.85	0.98	7.04	38.58	3.54	32.78	44.39		
0.70	T	-0.52	2.21	-4.14	3.10	6.39	1.87	3.33	9.46	41.92	2.47	37.90	46.01		
D	0.80	-1.32	0.28	-3.41	0.78	8.17	1.39	5.90	10.45	44.29	1.93	41.12	47.46		
0.90	T	-1.18	0.70	-2.34	-0.03	8.92	0.99	7.30	10.53	45.74	1.01	44.06	47.37		
1.00	T	-1.16	0.65	-2.22	-0.10	9.62	1.01	7.96	11.28	45.93	0.46	45.22	46.74		
0.0	T	-1.16	0.65	-2.22	-0.10	9.62	1.01	7.96	11.28	45.98	0.46	45.22	46.74		
0.10	T	-0.47	1.52	-2.90	2.01	8.21	1.66	5.49	10.93	43.01	1.73	40.17	45.85		
R	0.20	7	1.99	3.15	-3.18	7.16	5.33	2.14	1.82	8.84	38.33	2.83	33.39	42.66	
R	0.30	7	5.54	3.61	-0.39	11.46	1.70	1.98	-4.95	33.34	2.99	28.40	38.21		
E	0.40	7	8.33	2.99	3.92	1.374	-1.82	0.54	-2.70	-0.93	28.55	3.26	23.31	33.99	
T	U.50	7	11.82	2.37	7.94	15.70	-5.85	1.70	-8.64	-3.06	21.53	3.91	15.22	28.04	
T	U.60	7	12.98	2.18	9.41	16.55	-10.02	2.56	-14.22	-5.82	14.89	3.89	8.28	21.05	
R	0.70	7	12.96	1.85	9.93	15.99	-13.19	2.71	-11.73	-8.75	8.30	2.83	4.26	13.53	
N	0.80	7	13.13	1.38	10.87	15.49	-13.76	1.55	-16.30	-11.22	6.32	3.07	1.73	11.86	
N	0.90	7	13.41	0.82	12.06	14.76	-13.94	1.25	-15.99	-11.90	5.28	2.25	8.31	1.58	
1.00	T	13.75	0.76	12.50	14.99	-13.69	0.79	-14.99	-12.40	4.54	1.05	2.92	6.36		
0.0	T	-1.16	0.65	-2.22	-0.10	9.62	1.01	7.96	11.28	45.98	0.46	45.22	46.74		
0.10	T	-0.47	1.52	-2.90	2.01	8.21	1.66	5.49	10.93	43.01	1.73	40.17	45.85		
R	0.20	7	1.99	3.15	-3.18	7.16	5.33	2.14	1.82	8.84	38.33	2.83	33.39	42.66	
R	0.30	7	5.54	3.61	-0.39	11.46	1.70	1.98	-4.95	33.34	2.99	28.40	38.21	6.93	16.55
E	0.40	7	8.33	2.99	3.92	1.374	-1.82	0.54	-2.70	-0.93	28.55	3.26	23.31	33.99	
T	U.50	7	11.82	2.37	7.94	15.70	-5.85	1.70	-8.64	-3.06	21.53	3.91	15.22	28.04	
T	U.60	7	12.98	2.18	9.41	16.55	-10.02	2.56	-14.22	-5.82	14.89	3.89	8.28	21.05	
R	0.70	7	12.96	1.85	9.93	15.99	-13.19	2.71	-11.73	-8.75	8.30	2.83	4.26	13.53	
N	0.80	7	13.13	1.38	10.87	15.49	-13.76	1.55	-16.30	-11.22	6.32	3.07	1.73	11.86	
N	0.90	7	13.41	0.82	12.06	14.76	-13.94	1.25	-15.99	-11.90	5.28	2.25	8.31	1.58	
1.00	T	13.75	0.76	12.50	14.99	-13.69	0.79	-14.99	-12.40	4.54	1.05	2.92	6.36		

LANDMARK - RT TRUCHANTER (18)

TIME	SAMPLE	(- - - X - CU-ORDINATE - - -)			(- - - Y - CU-ORDINATE - - -)			(- - - Z - CU-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	3.86	0.41	3.01	4.53	-7.57	1.07	-9.32	-5.81	3.86	0.39	3.22	4.50	
0.10	T	4.06	0.61	3.06	5.05	-7.67	0.73	-8.87	-6.46	3.83	0.47	3.06	4.61	
F	0.20	7	4.48	0.68	2.94	5.18	-7.75	0.71	-8.92	-6.58	3.80	0.56	2.89	4.72
O	0.30	7	4.34	0.67	2.94	5.14	-7.84	0.73	-9.12	-6.55	3.80	0.53	3.01	4.74
R	0.40	7	4.02	0.72	2.84	5.20	-7.70	0.82	-8.04	-6.35	3.88	0.54	3.00	4.77
R	U.50	7	4.21	0.89	2.75	5.66	-7.57	0.80	-8.88	-6.27	3.93	0.46	3.17	4.70
A	G.60	7	4.19	0.74	2.94	5.40	-7.68	0.85	-8.07	-6.29	3.94	0.47	3.17	4.71
K	U.70	7	4.18	0.76	2.94	5.42	-7.65	0.80	-8.96	-6.34	3.96	0.45	3.23	4.69
D	U.80	7	4.28	0.89	2.82	5.73	-7.65	0.89	-9.11	-6.18	3.99	0.49	3.18	4.80
D	U.90	7	4.33	0.86	2.92	5.74	-7.64	0.96	-9.21	-6.07	3.93	0.55	3.12	4.93
T	U.00	7	4.10	0.74	2.88	5.33	-7.59	0.89	-8.96	-6.31	4.04	0.48	3.21	4.81
0.0	T	4.10	0.74	2.88	5.33	-7.59	0.89	-8.96	-6.13	4.04	0.48	3.21	4.81	
0.10	T	4.23	0.72	3.04	5.41	-7.62	0.83	-8.99	-6.25	4.03	0.43	3.32	4.74	
U.20	T	4.02	0.66	2.94	5.11	-7.67	0.85	-9.06	-6.28	4.02	0.44	3.30	4.75	
R	U.30	7	4.36	0.74	2.85	5.28	-7.75	0.88	-9.19	-6.31	3.99	0.45	3.26	4.73
E	U.40	7	4.02	0.71	2.85	5.18	-7.75	0.83	-9.10	-6.39	3.93	0.46	3.19	4.71
T	U.50	7	4.04	0.73	2.85	5.24	-7.72	0.83	-9.08	-6.35	3.97	0.53	3.11	4.84
U.60	T	4.10	0.67	3.00	5.21	-7.71	0.94	-9.25	-6.15	3.98	0.50	2.96	4.81	
R	0.70	7	4.12	0.50	2.30	4.94	-7.67	1.00	-9.32	-6.03	3.82	0.55	2.91	4.73
N	U.80	7	4.16	0.87	2.73	5.59	-7.62	0.83	-8.99	-6.26	3.97	0.50	3.16	4.79
N	U.90	7	3.87	0.54	3.04	4.70	-7.71	0.87	-9.14	-6.28	3.97	0.47	3.14	4.67
1.00	T	3.86	0.41	3.08	4.53	-7.57	1.07	-9.32	-5.81	3.86	0.39	3.22	4.50	

LANDMARK - RT KNEE TOP (20)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE							
		T	SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	A	19.49	1.05	17.77	21.22	-5.92	1.47	-8.34	0.51	11.06	0.92	10.15	13.17	0.17	0.0	0.0	0.0	0.0	0.0
0.10	F	19.64	1.02	17.97	21.31	-6.31	1.63	-8.99	0.64	11.63	0.92	10.12	13.15	0.42	0.42	0.42	0.42	0.42	0.42
0.20	R	19.62	0.09	17.83	21.41	-6.33	1.58	-8.29	0.74	11.61	1.03	9.92	13.30	0.04	0.04	0.04	0.04	0.04	0.04
0.30	D	19.47	1.07	17.72	21.22	-6.21	1.52	-8.70	0.72	11.57	0.93	10.15	13.19	0.20	0.20	0.20	0.20	0.20	0.20
0.40	R	19.61	1.07	17.84	21.37	-6.20	1.57	-8.77	0.63	11.56	0.92	10.17	13.20	0.13	0.13	0.13	0.13	0.13	0.13
0.50	W	19.73	1.48	17.79	21.67	-3.27	1.60	-8.90	0.64	11.72	0.82	10.36	13.07	0.14	0.14	0.14	0.14	0.14	0.14
0.60	A	19.73	1.25	17.68	21.78	-6.20	1.66	-8.92	0.48	11.72	0.78	10.44	13.00	0.06	0.06	0.06	0.06	0.06	0.06
0.70	R	19.61	1.17	17.70	21.53	-6.18	1.63	-8.45	0.51	11.74	0.79	10.44	13.03	0.12	0.12	0.12	0.12	0.12	0.12
0.80	D	19.71	1.15	17.82	21.60	-6.15	1.69	-8.92	0.38	11.73	0.93	10.21	13.25	0.10	0.10	0.10	0.10	0.10	0.10
0.90	R	19.81	1.18	17.86	21.75	-6.10	1.72	-8.92	0.29	11.76	0.94	10.21	13.31	0.11	0.11	0.11	0.11	0.11	0.11
1.00	W	19.63	1.19	17.67	21.58	-6.03	1.68	-8.77	0.28	11.75	0.90	10.26	13.23	0.20	0.20	0.20	0.20	0.20	0.20
0.0	F	19.63	1.19	17.81	21.51	-6.03	1.68	-8.77	0.28	11.75	0.90	10.26	13.23	0.0	0.0	0.0	0.0	0.0	0.0
0.10	R	19.56	1.10	17.76	21.37	-5.94	1.66	-8.65	0.22	11.83	0.78	10.55	13.11	0.17	0.17	0.17	0.17	0.17	0.17
0.20	D	19.66	1.13	17.82	21.51	-6.03	1.56	-8.59	0.46	11.75	0.82	10.41	13.10	0.16	0.16	0.16	0.16	0.16	0.16
0.30	E	19.51	1.15	17.62	21.40	-6.05	1.54	-8.57	0.52	11.75	0.89	10.29	13.21	0.15	0.15	0.15	0.15	0.15	0.15
0.40	T	19.51	1.19	17.56	21.46	-5.89	1.55	-8.44	0.35	11.72	0.84	10.34	13.09	0.15	0.15	0.15	0.15	0.15	0.15
0.50	F	19.71	1.23	17.69	21.74	-5.85	1.54	-8.37	0.33	11.67	0.87	10.24	13.11	0.21	0.21	0.21	0.21	0.21	0.21
0.60	R	19.71	1.21	17.73	21.69	-5.84	1.51	-8.42	0.36	11.65	0.88	10.21	13.09	0.03	0.03	0.03	0.03	0.03	0.03
0.70	D	19.69	1.24	17.66	21.73	-5.99	1.49	-8.43	0.56	11.75	0.82	10.41	13.08	0.18	0.18	0.18	0.18	0.18	0.18
0.80	N	19.54	1.19	17.59	21.49	-5.99	1.45	-8.38	0.61	11.66	0.82	10.33	13.02	0.16	0.16	0.16	0.16	0.16	0.16
0.90	R	19.49	1.05	17.77	21.22	-5.92	1.47	-8.34	0.51	11.55	0.92	10.15	13.17	0.36	0.36	0.36	0.36	0.36	0.36

LANDMARK - RT SHOULDER CENTER (22)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE							
		T	SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	F	1.30	0.64	2.35	7.76	-9.43	19.66	0.78	-9.48	19.66	1.40	17.36	21.96	0.0	0.0	0.0	0.0	0.0	0.0
0.10	R	0.97	0.77	-0.29	-7.27	0.50	-8.09	-6.46	20.47	0.87	19.05	21.89	0.99	0.99	0.99	0.99	0.99	0.99	
0.20	D	0.55	0.96	-1.03	2.12	-7.08	0.86	-8.49	-5.67	21.15	0.70	19.99	22.30	0.82	0.82	0.82	0.82	0.82	0.82
0.30	E	0.58	1.26	-1.48	-6.64	-6.65	-1.15	-8.53	-7.76	21.90	0.77	20.64	23.17	0.87	0.87	0.87	0.87	0.87	0.87
0.40	R	0.73	1.40	-1.55	3.02	-6.05	1.38	-8.30	-3.79	23.34	0.90	21.53	24.47	1.26	1.26	1.26	1.26	1.26	1.26
0.50	W	0.62	1.49	-1.82	3.06	-5.50	1.32	-7.67	-3.32	23.39	1.42	21.66	26.31	1.14	1.14	1.14	1.14	1.14	1.14
0.60	A	0.33	1.77	-2.58	3.24	-4.47	1.36	-6.70	-2.25	25.14	1.36	22.87	27.35	1.25	1.25	1.25	1.25	1.25	1.25
0.70	R	-0.31	1.70	-3.09	2.47	-3.68	1.51	-6.15	-2.20	26.01	1.70	23.22	28.81	1.36	1.36	1.36	1.36	1.36	1.36
0.80	D	-0.86	1.45	-3.24	1.52	-3.05	1.68	-5.86	-0.29	26.28	1.59	23.67	28.89	0.63	0.63	0.63	0.63	0.63	0.63
0.90	R	-0.99	1.45	-3.36	1.38	-2.49	1.68	-5.25	0.27	26.49	0.95	24.94	28.05	0.61	0.61	0.61	0.61	0.61	0.61
1.00	W	-1.25	1.28	-3.35	0.85	-2.20	1.53	-4.72	0.31	26.83	1.33	24.66	29.01	0.0	0.0	0.0	0.0	0.0	0.0
0.0	F	-1.25	1.28	-3.35	0.85	-2.20	1.53	-4.72	0.31	26.83	1.33	24.66	29.01	0.0	0.0	0.0	0.0	0.0	0.0
0.10	R	-0.76	1.04	-3.15	0.55	-2.79	1.71	-5.60	0.02	26.49	1.20	24.43	28.36	0.76	0.76	0.76	0.76	0.76	0.76
0.20	D	-0.34	1.45	-3.05	1.54	-2.63	1.85	-6.66	-0.60	25.79	1.23	23.78	27.81	1.08	1.08	1.08	1.08	1.08	1.08
0.30	R	-0.10	1.73	-2.04	2.04	-2.00	1.69	-6.99	-1.45	24.58	1.20	22.72	26.65	1.32	1.32	1.32	1.32	1.32	1.32
0.40	E	-0.10	1.16	-2.00	1.81	-5.02	1.46	-7.41	-2.62	23.54	1.04	21.80	25.20	1.42	1.42	1.42	1.42	1.42	1.42
0.50	T	0.03	1.27	-1.27	1.34	-5.95	1.14	-7.83	-4.08	22.35	0.83	20.99	23.72	1.49	1.49	1.49	1.49	1.49	1.49
0.60	U	0.39	0.68	-0.73	1.51	-6.70	0.91	-8.18	-5.21	21.49	0.80	20.18	22.80	1.19	1.19	1.19	1.19	1.19	1.19
0.70	R	0.66	0.78	-0.62	1.93	-7.26	0.81	-8.59	-5.92	20.85	1.00	19.21	22.50	0.89	0.89	0.89	0.89	0.89	0.89
0.80	N	0.99	0.69	-0.13	2.12	-7.61	0.72	-8.80	-6.00	19.33	1.38	18.03	22.57	0.74	0.74	0.74	0.74	0.74	0.74
0.90	O	1.18	0.58	0.23	2.13	-7.36	0.63	-8.90	-6.83	19.76	1.40	17.49	22.07	0.61	0.61	0.61	0.61	0.61	0.61
1.00	W	0.64	0.25	2.35	-7.76	-0.78	-9.03	-6.48	19.56	1.40	17.36	21.96	0.71	0.71	0.71	0.71	0.71	0.71	

LANDMARK - RT ELBOW CENTER (24)

TIME	SAMPLE	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE		
		M.EAN	S.E	PCT	M.EAN	S.E	PCT	M.EAN	S.E	PCT	M.EAN	S.E	PCT	M.EAN	S.E	PCT	M.EAN	S.E	PCT
0.0	T SIZE,N	2.37	0.93	0.84	3.90	-10.26	1.02	-11.94	8.90	1.91	5.77	12.03	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	F	1.35	1.15	-0.53	3.23	-10.09	1.47	-12.50	7.68	1.12	8.25	11.91	1.57	1.57	1.57	1.57	1.57	1.57	
0.20	R	2.25	1.32	0.09	4.41	-10.37	1.83	-13.36	7.37	1.44	1.99	8.17	1.68	1.68	1.68	1.68	1.68	1.68	
0.30	D	5.16	1.94	1.97	8.34	-10.45	2.20	-14.06	6.84	1.98	1.79	8.76	2.20	4.59	4.59	4.59	4.59	4.59	
0.40	R	8.17	5.16	1.94	4.07	12.26	-9.33	2.40	-13.27	5.38	21.51	6.38	11.14	3.20	7.37	1.517	1.517	1.517	
0.50	W	8.67	3.53	2.88	1.46	-7.22	2.41	-11.17	-3.25	26.39	5.40	17.53	35.25	5.25	20.42	5.25	20.42	5.25	
0.60	A	7.06	4.10	0.33	13.79	-4.40	1.89	-7.49	-1.31	31.49	4.08	24.49	37.89	5.80	26.22	5.80	26.22	5.80	
0.70	R	4.52	3.92	-1.92	10.95	-2.22	1.66	-4.94	0.50	34.80	2.37	30.51	38.29	4.64	30.85	4.64	30.85	4.64	
0.80	D	2.67	3.37	-2.85	8.19	-0.72	1.24	-2.75	1.31	35.80	1.09	34.01	37.59	2.76	33.62	2.76	33.62	2.76	
0.90	R	1.70	2.34	-2.15	5.54	0.20	1.11	-1.62	2.01	36.44	0.46	35.65	37.17	1.47	35.08	1.47	35.08	1.47	
1.00	W	1.05	1.49	-1.40	3.50	0.54	1.17	-1.38	2.45	36.42	0.53	35.55	37.29	0.73	35.81	0.73	35.81	0.73	
0.0	F	7	1.05	1.49	-1.40	3.50	0.54	1.17	-1.38	2.45	36.42	0.53	35.55	37.29	0.0	0.0	0.0	0.0	
0.10	R	7	3.05	2.11	-0.41	6.50	-1.31	0.74	-2.53	-0.09	35.50	0.72	34.38	36.75	2.65	2.65	2.65	2.65	
0.20	D	7	6.01	3.69	-0.04	12.07	-3.89	0.76	-5.13	-2.64	32.09	2.52	27.95	36.23	5.24	8.09	5.24	8.09	
0.30	R	7	7.79	3.74	1.65	1.65	-6.55	1.54	-9.09	-4.02	26.33	3.72	20.22	32.44	6.59	14.69	6.59	14.69	
0.40	E	7	6.48	1.22	1.22	11.74	-9.06	2.27	-12.77	5.34	19.52	3.92	13.13	25.97	7.34	22.03	7.34	22.03	
0.50	F	7	3.61	3.21	-1.65	8.87	-10.55	2.05	-13.91	7.20	14.57	2.88	9.95	19.39	5.85	27.65	5.85	27.65	
0.60	U	7	1.59	2.61	-2.69	5.87	-11.04	1.77	-13.94	-6.14	12.15	1.94	6.97	15.33	3.26	31.15	3.26	31.15	
0.70	R	7	1.26	1.85	-1.77	4.29	-10.94	1.74	-13.80	-8.09	10.61	1.88	7.54	13.69	1.58	32.73	1.58	32.73	
0.80	N	7	1.56	1.39	-0.72	3.83	-10.66	1.53	-13.17	8.15	9.95	1.88	6.77	12.92	0.87	33.59	0.87	33.59	
0.90	R	7	1.84	0.99	0.22	3.47	-10.51	1.25	-12.50	8.46	9.46	1.95	5.9b	12.35	0.76	34.35	0.76	34.35	
1.00	W	2.37	0.93	0.84	3.90	-10.26	1.02	-11.94	-8.59	8.90	1.91	5.77	12.03	0.64	34.99	0.64	34.99		

LANDMARK - RT WRIST CENTER (26)

TIME	SAMPLE	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE		
		M.EAN	S.E	PCT	M.EAN	S.E	PCT	M.EAN	S.E	PCT	M.EAN	S.E	PCT	M.EAN	S.E	PCT	M.EAN	S.E	PCT
0.0	T	10.60	0.35	10.03	11.16	-12.67	0.97	-14.26	-11.07	5.14	1.45	2.76	7.52	0.0	0.0	0.0	0.0	0.0	0.0
0.10	F	10.02	0.60	11.00	-12.02	1.31	-14.17	-9.87	8.94	2.54	4.78	13.10	3.90	3.90	3.90	3.90	3.90	3.90	
0.20	R	9.67	1.53	7.16	12.18	-9.98	2.37	-13.80	-6.10	14.84	3.78	8.62	21.02	6.23	10.13	10.13	10.13	10.13	
0.30	D	9.43	2.97	4.55	14.31	-7.34	2.91	-12.10	-2.57	21.26	4.43	13.99	28.53	6.97	17.10	17.10	17.10	17.10	
0.40	R	8.35	3.59	2.46	14.23	-4.02	2.53	-18.17	0.13	2.38	4.69	3.69	35.08	7.05	20.15	20.15	20.15	20.15	
0.50	W	6.40	3.85	0.09	12.72	-0.62	1.98	-3.86	-2.62	32.43	4.56	24.95	39.91	6.39	30.53	6.39	30.53	6.39	
0.60	A	3.75	3.51	-2.00	9.50	2.51	1.61	-0.13	5.15	36.58	3.54	30.77	42.39	5.64	36.37	5.64	36.37	5.64	
0.70	R	1.23	2.76	-3.29	5.75	4.90	1.45	2.52	2.77	39.84	2.40	35.88	43.74	4.74	41.11	4.74	41.11	4.74	
0.80	D	0.13	1.96	-2.09	3.35	6.51	0.90	5.03	7.99	41.77	1.68	39.01	44.53	2.77	44.53	2.77	44.53	2.77	
0.90	R	-0.32	1.20	-2.28	1.64	7.22	0.66	6.15	8.30	42.91	0.86	41.51	44.32	1.42	45.32	1.42	45.32	1.42	
1.00	W	-0.62	1.05	-2.34	1.10	7.64	0.70	6.49	8.79	43.19	0.48	42.39	43.99	0.0	0.0	0.0	0.0	0.0	
0.0	F	7	-0.62	1.05	-2.34	1.10	7.64	0.70	6.49	8.79	43.19	0.48	42.39	43.99	0.0	0.0	0.0	0.0	0.0
0.10	R	7	0.89	1.43	-1.46	3.24	6.49	0.87	5.06	7.91	41.15	1.30	39.01	43.29	2.79	43.29	2.79	43.29	2.79
0.20	D	7	3.25	2.82	-1.38	7.88	3.88	0.72	5.05	7.92	36.82	2.72	32.36	41.28	5.57	38.36	5.57	38.36	5.57
0.30	R	5.99	3.12	0.88	11.10	0.46	0.54	-0.43	1.35	32.04	2.87	27.31	36.71	6.51	14.87	6.51	14.87	6.51	
0.40	E	8.50	2.97	3.63	13.37	-3.18	1.07	-4.95	-1.42	26.24	3.16	21.03	31.40	7.29	22.17	7.29	22.17	7.29	
0.50	T	9.84	2.64	5.52	14.17	-7.05	1.86	-10.10	-19.33	2.63	15.02	2.64	23.64	3.017	3.017	3.017	3.017	3.017	
0.60	A	10.32	2.28	6.57	14.00	-10.70	3.07	-15.73	-5.67	12.70	2.06	9.32	16.08	7.58	37.76	7.58	37.76	7.58	
0.70	R	9.83	1.76	6.94	12.72	-12.05	2.26	-15.75	-1.34	9.39	3.03	4.42	14.36	4.42	41.36	4.42	41.36	4.42	
0.80	N	10.00	1.10	8.19	11.19	-12.74	1.61	-15.38	-10.10	6.93	2.93	2.32	11.53	2.57	43.93	2.57	43.93	2.57	
0.90	R	10.39	0.56	9.47	11.32	-12.94	1.46	-15.34	-10.54	5.64	1.98	2.49	8.89	1.36	45.29	1.36	45.29	1.36	
1.00	W	10.60	0.35	10.03	11.16	-12.67	0.70	-14.26	-11.07	5.14	1.45	2.76	7.52	0.61	45.89	0.61	45.89	0.61	

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO OVER-HEAD CONTROLLER AT 0.0, +10.0, +47.3 AND RETURNS. RIGHT HAND REMAINS AT STICK CONTROLLER AT +20.0, 0.0, +12.4.

MOTION NUMBER - 21230
BACK ANGLE - 13

SUB-MOVEMENT			TIME DATA			RANGE		
	MEAN	STD DEV						
LEFT FWD	0.87	0.45		0.70	TO	1.10	SECS.	
LEFT REV	0.73	0.13		0.50	TO	0.90	SECS.	

LANDMARK - NASION

(1)

TIME	SAMPLE SIZE, N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	7	6.36	0.81	7.69	-0.08	1.28	2.18	2.02	2.92	1.56	2.36	31.48	0.0	0.0	0.0	0.0	0.0	
0.10	7	2.95	1.48	0.52	5.38	0.50	0.46	-0.25	1.25	31.71	1.22	29.72	33.71	4.45	4.45	4.45	4.45	
F 0.20	7	1.47	1.61	-1.17	4.11	0.14	0.64	-0.92	1.19	32.6	1.01	30.50	33.82	1.59	6.04	6.04	6.04	
O 0.30	7	0.85	1.50	-1.61	3.30	-0.38	0.65	-1.45	0.69	32.4	1.05	33.67	34.12	0.84	6.38	6.38	6.38	
R 0.40	7	0.36	1.44	-2.00	2.71	-0.48	0.74	-1.69	0.73	32.4	1.05	33.67	34.12	0.84	6.38	6.38	6.38	
M 0.50	7	-0.04	1.52	-2.54	2.46	-0.46	0.73	-1.66	0.75	32.4	1.05	33.67	34.12	0.84	6.38	6.38	6.38	
A 0.60	7	-0.25	1.64	-2.44	2.09	-0.53	0.79	-1.82	0.76	32.5	0.97	30.93	34.11	0.42	7.80	7.80	7.80	
R 0.70	7	-0.49	1.70	-3.28	2.31	-0.58	0.80	-1.88	0.72	32.4	1.04	30.81	34.22	0.23	8.03	8.03	8.03	
D 0.80	7	-0.48	1.78	-3.40	2.44	-0.52	0.95	-2.08	1.04	32.4	1.00	30.82	34.09	0.25	8.28	8.28	8.28	
O 0.90	7	-0.31	1.69	-3.08	2.45	-0.57	0.95	-2.14	1.03	32.4	0.95	30.82	33.93	0.19	8.57	8.57	8.57	
N 1.00	7	-0.17	1.89	-3.27	2.93	-0.63	0.92	-2.14	0.89	32.3	0.97	30.78	33.97	0.16	8.71	8.71	8.71	
0.0	7	-0.17	1.89	-3.27	2.93	-0.63	0.92	-2.14	0.89	32.3	0.97	30.78	33.97	0.0	0.0	0.0	0.0	
U+0.0	7	2.78	2.09	0.65	6.21	-0.43	0.61	-1.43	0.56	30.9	0.95	1.50	28.49	33.41	3.28	3.28	3.28	
O+0.20	7	4.22	2.26	0.52	7.92	-0.43	0.74	-1.63	0.78	30.4	1.52	27.74	32.72	1.61	4.89	4.89	4.89	
R+0.30	7	4.67	1.90	1.54	7.79	-0.51	0.95	-2.07	1.05	29.3	1.43	27.55	32.25	0.56	5.45	5.45	5.45	
E+0.40	7	5.15	1.68	2.39	7.90	-0.57	1.12	-2.41	1.26	29.5	1.31	27.54	31.85	0.53	5.98	5.98	5.98	
T+0.50	7	5.53	1.45	3.16	7.90	-0.62	1.19	-2.58	1.34	29.5	1.27	27.44	31.62	0.42	6.40	6.40	6.40	
U+0.60	7	5.88	1.20	3.90	7.85	-0.50	1.14	-2.37	1.37	29.3	1.21	27.31	31.29	0.43	6.83	6.83	6.83	
R+0.70	7	6.06	1.08	4.30	7.83	-0.47	1.36	-2.70	1.76	29.4	1.23	27.17	31.21	0.22	7.05	7.05	7.05	
N+0.80	7	6.23	1.09	4.40	7.99	-0.40	1.44	-2.76	1.96	29.0	1.30	26.91	31.17	0.21	7.26	7.26	7.26	
O+0.90	7	6.26	1.06	4.53	7.99	-0.26	1.39	-2.53	2.02	26.6	1.40	26.67	31.24	0.18	7.44	7.44	7.44	
M+1.00	7	6.36	0.81	5.04	7.69	-0.08	1.28	-2.18	2.02	28.9	2	1.56	26.36	31.48	0.20	7.66	7.66	7.66

LANDMARK - CERVICALE

(2)

TIME	SAMPLE SIZE, N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
O+0.0	7	-0.80	0.98	-2.41	0.82	-2.08	0.83	-3.44	-0.72	23.2	0.85	21.87	24.66	0.0	0.0	0.0	0.0
L+0.10	7	-1.09	0.77	-2.77	0.17	-2.01	0.68	-3.12	-0.89	23.3	0.93	21.85	24.89	0.32	0.32	0.32	0.32
F+0.20	7	-1.43	0.92	-2.94	0.09	-2.23	0.66	-3.31	-1.15	23.4	0.95	21.84	24.96	0.41	0.41	0.41	0.41
O+0.30	7	-1.48	1.00	-3.11	0.15	-2.60	0.79	-3.89	-1.31	23.5	0.98	21.97	25.18	0.41	1.14	1.14	1.14
E+0.40	7	-1.68	0.69	-2.81	-0.55	-2.63	0.62	-3.62	-1.58	23.4	0.97	21.90	25.08	0.22	1.35	1.35	1.35
M+0.50	7	-1.92	0.74	-3.13	-0.71	-2.69	0.81	-4.02	-1.35	23.4	0.95	21.93	25.04	0.20	1.61	1.61	1.61
A+0.60	7	-2.07	0.93	-3.60	-0.54	-2.77	0.90	-4.24	-1.30	23.5	0.92	21.99	25.00	0.17	1.78	1.78	1.78
R+0.70	7	-2.13	0.79	-3.42	-0.84	-2.70	0.80	-4.01	-1.40	23.4	0.89	22.01	24.95	0.09	1.87	1.87	1.87
D+0.80	7	-2.12	0.81	-3.46	-0.79	-2.78	1.02	-4.39	-1.11	23.5	0.94	22.03	25.10	0.11	1.99	1.99	1.99
O+0.90	7	-2.07	0.77	-3.17	-0.63	-2.67	1.05	-4.39	-0.95	23.5	1.03	22.00	25.27	0.26	2.24	2.24	2.24
I+1.00	7	-1.85	0.75	-3.10	-0.61	-2.83	0.98	-4.43	-1.23	23.5	1.03	22.05	25.04	0.19	2.43	2.43	2.43
O+0.0	7	-1.85	0.76	-3.10	-0.61	-2.83	0.98	-4.43	-1.23	23.5	1.03	22.05	25.04	0.0	0.0	0.0	0.0
O+0.10	7	-1.51	0.85	-2.92	-0.10	-2.87	0.97	-4.46	-1.28	23.5	1.03	22.14	24.95	0.35	0.35	0.35	0.35
R+0.20	7	-1.31	0.93	-2.84	0.22	-2.88	0.83	-4.25	-1.52	23.4	1.03	22.15	24.74	0.22	0.57	0.57	0.57
C+0.30	7	-1.22	0.85	-2.61	0.17	-2.86	0.79	-4.15	-1.56	23.3	1.03	22.06	24.65	0.13	0.70	0.70	0.70
E+0.40	7	-1.15	0.86	-2.56	0.26	-2.81	0.84	-4.19	-1.49	23.4	1.03	22.00	24.88	0.12	0.82	0.82	0.82
T+0.50	7	-0.94	0.86	-2.35	0.48	-2.84	0.97	-4.43	-1.25	23.3	1.03	22.05	24.78	0.23	1.05	1.05	1.05
U+0.60	7	-0.89	0.92	-2.41	0.62	-2.63	0.92	-4.14	-1.11	23.3	1.03	21.97	24.73	0.22	1.27	1.27	1.27
R+0.70	7	-0.83	1.03	-2.52	0.86	-2.34	1.02	-4.02	-0.66	23.3	1.03	21.97	24.76	0.23	1.26	1.26	1.26
N+0.80	7	-0.79	1.17	-2.70	1.12	-2.14	1.12	-3.99	-0.30	23.3	1.03	21.93	24.68	0.21	1.77	1.77	1.77
O+0.90	7	-0.78	1.20	-2.75	1.18	-2.07	1.02	-3.75	-0.39	23.2	1.03	21.92	24.63	0.08	1.85	1.85	1.85
I+1.00	7	-0.80	0.98	-2.41	0.82	-2.08	0.83	-3.64	-0.72	23.2	1.03	21.92	24.63	0.02	1.87	1.87	1.87

LANDMARK - SUPRASTERNAL (3)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		M _{AN}	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	2.13	0.84	0.76	1.50	-1.66	1.12	-3.50	0.41	22.65	0.98	21.04	24.26	0.0	0.0	0.0	0.0	
0.10	F	1.78	0.88	0.34	3.22	-1.53	1.18	-3.48	0.33	22.76	0.94	21.22	24.31	0.38	0.38	0.38	0.38	
0.20	R	1.52	0.99	-0.09	3.14	-1.55	1.15	-3.43	0.33	22.74	0.80	21.43	24.05	0.64	0.64	0.64	0.64	
0.30	O	1.42	0.97	-0.16	3.00	-1.80	1.33	-3.08	0.33	22.99	0.84	21.60	24.37	0.37	0.37	0.37	0.37	
0.40	R	1.11	1.02	-0.57	2.78	-1.79	1.35	-4.01	0.43	22.99	0.85	21.60	24.38	0.31	0.31	0.31	0.32	
0.50	W	0.94	1.07	-0.82	2.70	-1.82	1.64	-4.46	0.82	23.08	0.79	21.78	24.37	0.19	0.19	0.19	0.51	
A	U	0.60	0.76	0.90	0.72	2.24	1.93	-1.58	-4.52	0.67	23.49	0.73	21.99	24.39	0.24	0.24	0.24	1.75
R	O	0.68	0.68	-0.64	2.00	-1.75	1.56	-4.27	0.77	23.29	0.73	22.09	24.39	0.22	0.22	0.22	1.97	
D	B	0.64	0.81	-0.69	1.97	-1.83	1.83	-4.38	0.73	23.28	0.88	21.84	24.72	0.39	0.39	0.39	2.06	
O	W	0.66	-0.33	1.84	-1.80	1.50	-4.25	0.65	23.24	0.88	21.83	24.72	0.12	0.12	0.12	2.18		
0.90	U	0.76	0.76	-1.37	3.98	-1.21	0.79	-2.50	0.09	23.20	0.81	21.87	24.52	0.81	0.81	0.81	3.00	
1.00	T	1.31	1.63	-1.37	3.98	-1.21	0.79	-2.50	0.09	23.20	0.81	21.87	24.52	0.0	0.0	0.0	0.0	
0.0	F	1.31	1.63	-1.37	3.98	-1.21	0.79	-2.50	0.09	23.20	0.81	21.87	24.52	0.0	0.0	0.0	0.0	
0.10	R	1.17	0.59	0.20	2.13	-1.83	1.24	-3.87	0.25	23.24	0.73	22.01	24.41	0.64	0.64	0.64	0.64	
0.20	O	1.47	0.47	0.96	2.04	-1.96	1.35	-4.17	0.25	23.43	0.76	21.89	24.37	0.18	0.18	0.18	0.83	
0.30	R	1.47	0.60	0.49	2.05	-1.84	1.37	-4.10	0.41	23.20	0.80	21.69	24.31	0.27	0.27	0.27	1.10	
0.40	E	1.46	0.74	0.25	2.67	-2.02	1.44	-4.38	0.35	23.22	0.89	21.60	24.51	0.18	0.18	0.18	1.28	
0.50	U	1.59	0.71	0.44	2.74	-2.10	1.26	-4.16	0.04	23.22	0.96	21.43	24.57	0.16	0.16	0.16	1.44	
0.60	U	1.73	0.57	2.89	-2.12	1.31	-4.26	0.02	23.22	0.88	21.11	24.69	0.19	0.19	0.19	1.63		
0.70	R	1.79	0.90	0.32	3.26	-1.90	1.30	-4.03	0.24	22.84	1.13	20.25	24.66	0.24	0.24	0.24	1.87	
0.80	N	1.83	0.93	0.30	3.26	-1.73	1.29	-3.85	0.38	22.78	0.99	21.15	24.41	0.17	0.17	0.17	2.04	
0.90	T	1.91	0.88	0.47	3.34	-1.72	1.27	-3.79	0.36	22.77	0.94	21.23	24.32	0.08	0.08	0.08	2.12	
1.00	J	2.13	0.84	0.76	3.50	-1.66	1.12	-3.50	0.19	22.65	0.98	21.04	24.26	0.26	0.26	0.26	2.38	

LANDMARK - LT ACRION (5)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		M _{AN}	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-0.82	0.77	-2.08	0.44	6.59	0.69	5.46	7.71	23.20	0.87	21.77	24.62	0.0	0.0	0.0	0.0
0.10	F	-1.42	0.57	-2.35	0.56	6.37	0.84	5.00	7.74	23.02	1.11	21.21	24.84	0.66	0.66	0.66	0.66
0.20	R	-2.34	0.56	-2.97	-1.12	6.01	1.01	4.35	7.67	23.09	1.11	21.26	24.92	0.72	0.72	0.72	1.38
0.30	O	-2.17	0.83	-3.53	-0.81	5.19	1.05	3.47	6.91	23.53	1.45	21.16	25.90	0.94	0.94	0.94	2.32
0.40	R	-2.30	0.16	-2.56	-2.04	4.68	0.93	3.16	6.20	24.70	0.99	23.07	26.33	1.28	1.28	1.28	3.60
0.50	W	-2.96	0.45	-3.70	-2.23	4.83	0.95	3.28	6.38	24.74	1.12	22.87	26.54	0.68	0.68	0.68	4.28
A	A	-3.10	0.62	-4.11	-2.09	4.43	1.01	2.78	6.03	24.94	1.38	22.68	27.19	0.48	0.48	0.48	4.76
K	O	-3.64	1.04	-5.35	-1.93	4.22	1.28	2.12	5.32	25.15	1.62	24.49	27.82	0.62	0.62	0.62	5.38
D	O	-4.17	1.13	-6.02	-2.32	4.23	1.40	1.93	6.53	25.35	1.80	22.40	28.29	0.56	0.56	0.56	5.94
O	W	-3.76	0.62	-4.78	-2.73	4.65	1.37	2.41	6.89	24.33	0.49	23.52	25.14	1.17	1.17	1.17	7.11
0.90	T	-3.77	1.23	-5.79	-1.75	4.61	1.39	2.33	6.90	24.33	0.33	23.79	24.88	0.04	0.04	0.04	7.15
1.00	F	-3.77	1.23	-5.79	-1.75	4.61	1.39	2.33	6.90	24.33	0.33	23.79	24.88	0.0	0.0	0.0	0.0
0.0	R	-3.77	1.13	-5.63	-1.90	4.67	1.15	2.78	6.55	24.27	0.41	23.60	24.94	0.08	0.08	0.08	0.03
0.10	O	-3.78	1.15	-5.65	-1.93	4.73	1.17	2.81	6.65	24.39	0.41	24.05	24.74	0.14	0.14	0.14	0.23
0.20	R	-3.53	0.84	-4.91	-2.14	4.75	1.30	2.62	6.88	24.42	0.49	24.25	24.57	0.25	0.25	0.25	0.49
0.30	E	-2.61	0.85	-4.03	-1.22	4.31	1.34	2.12	6.51	24.54	0.87	23.22	26.07	1.04	1.04	1.04	1.56
0.40	T	-1.76	1.14	-3.64	-3.64	4.92	1.72	2.11	7.74	24.59	0.68	23.71	25.71	1.04	1.04	1.04	2.56
0.50	U	-1.45	0.89	-2.92	0.01	5.48	1.16	3.57	7.39	24.17	0.82	22.83	25.52	0.76	0.76	0.76	3.32
0.60	R	-1.17	0.97	-2.76	0.43	5.89	0.99	4.18	7.42	23.44	1.08	21.67	25.22	0.85	0.85	0.85	4.17
0.70	N	-0.96	1.02	-2.64	-2.64	5.72	0.16	0.87	7.57	23.35	0.96	21.78	24.93	0.43	0.43	0.43	4.53
0.80	O	-0.83	1.02	-2.50	0.84	6.38	0.71	5.21	7.55	23.24	0.85	21.89	24.67	0.27	0.27	0.27	4.86
0.90	U	-0.82	0.77	-2.08	0.44	6.59	0.69	5.46	7.71	23.20	0.87	21.77	24.62	0.22	0.22	0.22	5.09
1.00	T	-0.82	0.77	-2.08	0.77	6.59	0.69	5.46	7.71	23.20	0.87	21.77	24.62	0.22	0.22	0.22	5.09

LANDMARK - LT GRIP CENTER (17)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					DISTANCE MOVED	
		T	SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	INCR	CUM	
0.0	6	18.83	0.48	18.05	19.61	10.23	1.01	8.57	11.89	12.69	13.14	0.28	1.24	1.24	1.24	0.0	0.0	
0.10	7	16.01	3.26*	10.67	21.35	10.02	0.86	8.60	11.44	18.22	24.95	4.10	11.49	24.95	6.21	6.21	6.21	
F	7	10.90	5.49	1.90	19.91	9.77	1.20	7.80	11.73	26.23	14.18	3.62	29.29	9.51	15.72	15.72	15.72	
0.30	7	8.37	3.10	3.29	13.46	9.42	1.17	7.49	11.34	29.54	2.56	25.30	33.70	4.15	1.987	1.987	1.987	
K	7	3.44	2.68	-0.95	7.83	9.21	1.14	7.33	11.08	34.34	2.91	30.15	39.71	7.34	27.20	27.20	27.20	
K	7	-0.82	2.89	-5.55	3.92	9.10	1.40	6.81	11.39	39.82	4.04	33.19	46.66	6.49	3.69	3.69	3.69	
A	7	-2.47	2.28	-6.21	1.27	8.64	1.57	6.06	11.22	42.43	2.09	38.99	45.86	3.12	3.681	3.681	3.681	
R	7	0.70	1.31	-4.59	0.30	9.12	0.51	8.28	9.93	44.70	1.87	41.63	47.77	2.32	39.13	39.13	39.13	
D	5	-1.66	0.97	-3.25	-0.07	9.28	0.54	8.49	10.16	44.82	1.09	43.04	46.61	0.81	3.994	3.994	3.994	
D	4	-1.08	1.01	-2.73	0.57	9.47	0.62	8.46	10.49	45.37	1.26	43.31	47.43	0.82	4.075	4.075	4.075	
0.90	3	-1.38	0.70	-2.53	-0.24	9.29	0.45	8.56	10.03	44.97	0.42	44.28	45.66	0.53	41.29	41.29	41.29	
1.00																		
0.0	3	-1.38	0.70	-2.53	-0.24	9.29	0.45	8.56	10.03	44.97	0.42	44.28	45.66	0.0	0.0	0.0	0.0	
0.10	3	-1.24	1.44	-3.60	1.12	9.03	0.16	8.78	9.28	43.02	1.56	40.46	45.58	1.97	1.97	1.97	1.97	
0.20	4	-0.97	1.59	-3.58	1.64	8.71	0.47	7.94	9.48	40.48	1.90	37.07	43.29	2.87	4.64	4.64	4.64	
R	30	6	1.63	1.65	-1.07	4.32	8.47	0.73	7.28	9.67	36.09	1.78	33.77	39.61	4.36	9.20	9.20	9.20
E	4.69	7	1.72	1.72	1.86	7.52	7.94	1.02	6.27	9.61	33.02	1.95	29.82	36.23	4.80	14.00	14.00	14.00
T	0.50	7	8.93	1.92	5.78	12.08	8.12	0.54	6.58	9.66	28.40	2.97	23.60	33.36	6.22	20.22	20.22	20.22
U	0.60	7	13.01	2.90	8.85	18.37	8.69	1.35	6.49	10.93	22.44	5.03	14.17	30.66	7.69	27.91	27.91	27.91
R	0.70	7	16.03	3.16	11.50	21.86	9.26	1.32	7.10	11.42	17.79	4.01	11.21	24.37	5.58	33.49	33.49	33.49
N	0.80	7	17.84	1.98	14.56	21.06	9.48	0.93	7.96	11.00	15.45	0.76	10.35	19.94	2.89	36.37	36.37	36.37
N	0.90	6	18.76	0.79	16.76	19.36	9.92	0.88	8.48	11.35	14.04	0.76	12.80	15.29	1.21	37.58	37.58	37.58
O	1.00	6	18.83	0.48	18.05	19.61	10.23	1.01	8.57	11.89	12.59	0.28	12.24	13.14	1.59	39.17	39.17	39.17

LANDMARK - LT TROCHANTER (19)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					DISTANCE MOVED	
		T	SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	INCR	CUM	
0.0	7	4.38	0.38	3.76	5.00	6.74	0.82	5.39	8.09	3.93	0.36	3.34	4.52	0.0	0.0	0.0	0.0	
0.10	7	4.26	0.55	3.35	5.16	6.78	0.69	5.65	7.91	3.87	0.35	3.03	4.45	0.14	0.14	0.14	0.14	
F	20	7	4.15	0.64	3.11	5.20	6.83	0.82	5.48	8.18	3.87	0.35	3.29	4.45	0.11	0.11	0.26	0.26
D	30	7	4.04	1.00	2.40	5.68	6.47	0.79	5.18	7.6	3.93	0.41	3.25	4.61	0.38	0.64	0.64	0.64
R	0.40	7	4.21	0.63	3.17	5.25	6.69	0.62	5.68	7.71	3.87	0.39	3.24	4.51	0.29	0.29	0.29	0.29
M	0.50	7	4.31	0.50	3.50	5.13	6.81	0.71	5.65	7.97	3.88	0.35	3.31	4.66	0.16	0.16	0.16	0.16
A	0.60	7	4.33	0.46	3.58	5.08	6.64	0.82	5.29	8.00	3.96	0.40	3.30	4.62	0.18	1.26	1.26	1.26
R	0.70	7	4.29	0.47	3.52	5.06	6.74	0.97	5.14	8.34	3.94	0.40	3.29	4.60	0.10	1.36	1.36	1.36
D	0.80	7	4.29	0.46	3.53	5.05	6.74	0.84	5.36	8.13	3.97	0.40	3.31	4.63	0.03	1.39	1.39	1.39
O	0.90	7	4.46	0.59	3.49	5.43	6.73	0.68	5.61	7.84	3.90	0.33	3.33	4.47	0.18	1.57	1.57	1.57
1.00	7	4.28	0.39	3.64	4.92	6.68	0.73	5.48	7.88	3.89	0.39	3.25	4.53	0.18	1.75	1.75	1.75	
0.0	7	4.28	0.39	3.64	4.92	6.68	0.73	5.48	7.88	3.89	0.39	3.25	4.53	0.0	0.0	0.0	0.0	
0.10	7	4.40	0.31	3.88	4.91	6.68	0.70	5.53	7.84	3.89	0.38	3.27	4.51	0.12	0.12	0.12	0.12	
0.20	7	4.40	0.32	3.86	4.93	6.72	0.78	5.44	7.99	3.90	0.35	3.22	4.48	0.04	0.04	0.04	0.04	
R	30	7	4.34	0.41	3.68	5.01	6.81	0.84	5.44	8.18	3.92	0.38	3.33	4.56	0.12	0.27	0.27	0.27
E	4.40	7	4.36	0.53	3.49	5.23	6.64	0.92	5.12	8.16	3.96	0.42	3.27	4.65	0.17	0.44	0.44	0.44
T	0.50	7	4.29	0.76	3.05	5.53	6.66	0.77	5.40	7.92	3.89	0.36	3.30	4.49	0.10	0.54	0.54	0.54
A	0.60	7	4.24	0.95	2.68	5.80	6.91	0.53	5.39	8.44	3.87	0.38	3.24	4.49	0.26	0.79	0.79	0.79
R	0.70	7	4.33	0.62	3.36	5.40	6.78	0.87	5.36	8.21	3.88	0.41	3.22	4.55	0.19	0.98	0.98	0.98
N	0.80	7	4.35	0.46	3.59	5.14	6.76	0.68	5.64	7.88	3.84	0.34	3.28	4.40	0.06	1.04	1.04	1.04
O	0.90	7	4.31	0.33	3.76	4.85	6.74	0.69	5.58	7.84	3.92	0.35	3.33	4.45	0.09	1.13	1.13	1.13
1.00	7	4.38	0.36	3.76	5.00	6.76	0.74	5.39	8.09	3.93	0.36	3.34	4.52	0.09	1.52	1.52	1.52	

LANDMARK - LT KNEE TOP (21)

TIME	SAMPLE SIZE,N	(- - - - - X - CO-ORDINATE - - - - -)					(- - - - - Y - CO-ORDINATE - - - - -)					(- - - - - Z - CO-ORDINATE - - - - -)				
		MEAN SE	5 PCT 5	95 PCT PCT	MEAN SE	5 PCT 5	95 PCT PCT	MEAN SE	5 PCT 5	95 PCT PCT	MEAN SE	5 PCT 5	95 PCT PCT	MEAN SE	5 PCT 5	95 PCT PCT
T 0.0	7	19.96	0.69	18.82	21.09	5.30	1.00	3.67	6.93	11.43	1.26	9.36	13.50	0.0	0.0	0.0
R 0.10	7	20.06	0.75	18.83	21.30	5.54	0.78	4.26	6.82	11.40	1.23	9.38	13.42	0.27	0.27	0.27
F 0.14	7	19.95	0.83	18.60	21.31	5.57	0.81	4.24	6.90	11.43	1.32	9.27	13.59	0.12	0.12	0.38
D 0.30	7	18.14	4.24	11.18	25.09	3.58	4.66	-4.07	11.23	11.51	1.41	9.30	13.91	2.70	3.08	3.08
R 0.40	7	18.93	2.30	15.16	22.71	4.38	2.71	-0.76	8.81	11.50	1.29	9.45	13.68	1.13	1.13	4.21
M 0.50	7	19.86	0.81	18.53	21.20	5.46	0.83	4.09	6.83	11.50	1.21	9.52	13.47	1.43	1.43	5.64
A 0.60	7	19.83	0.81	18.50	21.15	5.44	0.84	4.06	6.82	11.53	1.24	9.49	13.56	0.05	0.05	5.69
R 0.70	7	19.98	0.85	18.60	21.37	5.44	0.86	4.03	6.86	11.59	1.21	9.60	13.58	0.17	0.17	5.86
D 0.80	7	20.03	0.82	18.67	21.38	5.44	0.75	4.20	6.68	11.57	1.29	9.45	13.69	0.05	0.05	5.91
N 0.90	7	20.23	0.84	18.89	21.56	5.64	0.76	4.40	6.88	11.48	1.26	9.42	13.54	0.30	0.30	6.21
T 1.00	7	20.08	0.59	19.11	21.06	5.48	0.91	3.98	6.98	11.52	1.25	9.47	13.57	0.22	0.22	6.42
O.0	7	20.08	0.59	19.11	21.06	5.48	0.91	3.98	6.98	11.52	1.25	9.47	13.57	0.0	0.0	0.0
O.10	7	19.99	0.75	18.76	21.23	5.48	0.91	3.91	6.91	11.58	1.28	9.49	13.68	0.13	0.13	0.13
O.20	7	19.96	0.83	18.60	21.32	5.48	0.94	3.94	6.02	11.39	1.28	9.49	13.69	0.38	0.38	0.21
R 0.30	7	20.04	0.77	18.77	21.31	5.53	0.82	4.18	6.89	11.50	1.32	9.39	13.73	0.10	0.10	0.31
E 0.40	7	20.05	0.79	18.76	21.34	5.28	0.77	4.02	6.55	11.56	1.35	9.34	13.78	0.25	0.25	0.50
T 0.50	7	19.98	0.80	18.67	21.29	5.24	0.83	3.88	6.61	11.23	1.27	9.45	13.62	0.08	0.08	0.64
U 0.60	7	19.95	0.75	18.73	21.18	5.35	0.92	3.84	6.85	11.48	1.17	9.56	13.39	0.12	0.12	0.76
R 0.70	7	20.10	0.79	18.80	21.39	5.40	0.90	3.92	6.88	11.46	1.21	9.43	13.41	0.16	0.16	0.93
N 0.80	7	20.04	0.82	18.59	21.39	5.44	0.96	3.86	7.02	11.36	1.22	9.35	13.37	0.10	0.10	1.02
O.90	7	19.91	0.73	18.71	21.11	5.47	1.06	3.74	7.20	11.33	1.16	9.43	13.23	0.14	0.14	1.16
T 1.00	7	19.96	0.69	18.82	21.09	5.30	1.00	3.67	6.93	11.43	1.26	9.36	13.50	0.20	0.20	1.36

LANDMARK - LT SHOULDER CENTER (23)

TIME	SAMPLE SIZE,N	(- - - - - X - CO-ORDINATE - - - - -)					(- - - - - Y - CO-ORDINATE - - - - -)					(- - - - - Z - CO-ORDINATE - - - - -)				
		MEAN SE	5 PCT 5	95 PCT PCT	MEAN SE	5 PCT 5	95 PCT PCT	MEAN SE	5 PCT 5	95 PCT PCT	MEAN SE	5 PCT 5	95 PCT PCT	MEAN SE	5 PCT 5	95 PCT PCT
T 0.0	7	0.62	0.96	2.20	6.73	0.75	5.50	7.96	21.40	0.73	22.60	0.0	0.0	0.0	0.0	0.0
R 0.10	7	0.12	0.44	-0.61	0.85	7.10	0.72	5.93	8.28	21.10	0.68	19.98	22.21	0.70	0.70	0.70
F 0.20	7	-0.42	0.53	-1.29	0.45	6.99	0.96	5.41	8.57	21.50	0.65	20.44	22.56	1.38	1.38	1.38
D 0.30	7	-0.70	0.70	-1.84	0.44	6.90	1.32	4.74	9.07	22.34	0.84	20.94	23.68	2.44	2.44	2.44
R 0.40	7	-1.00	0.61	-1.99	-0.01	6.65	1.35	4.43	8.07	23.07	1.09	21.28	24.86	3.10	3.10	3.10
M 0.50	7	-1.46	0.57	-2.40	-0.52	6.39	1.29	4.27	8.59	23.03	1.32	21.67	25.99	0.92	0.92	4.03
A 0.60	7	-1.78	0.72	-2.96	-0.60	6.10	1.22	4.09	8.11	24.37	1.32	22.20	26.53	0.69	0.69	4.71
R 0.70	7	-2.01	0.59	-3.04	-0.73	5.73	1.22	3.72	7.73	24.15	1.29	22.74	26.96	0.65	0.65	5.37
D 0.80	7	-2.15	0.49	-2.96	-1.35	5.68	1.20	3.71	7.65	25.04	1.19	23.07	26.97	0.23	0.23	5.60
O.90	7	-2.01	0.53	-2.89	-1.13	5.50	1.11	3.68	7.32	25.04	1.03	23.35	26.74	0.24	0.24	5.83
T 1.00	7	-2.17	1.04	-3.88	-0.46	5.32	1.21	3.33	7.30	25.01	1.09	23.21	26.80	0.24	0.24	6.08
O.0	7	-2.17	1.04	-3.88	-0.46	5.32	1.21	3.33	7.30	25.01	1.09	23.21	26.80	0.0	0.0	0.0
O.10	7	-1.85	1.03	-3.54	-0.15	5.47	1.22	3.48	7.47	24.94	1.18	22.99	26.86	0.37	0.37	0.37
O.20	7	-1.53	1.14	-3.40	0.34	5.62	1.35	3.41	7.84	24.56	1.08	22.69	26.24	0.57	0.57	0.95
R 0.30	7	-1.12	0.82	-2.47	0.23	5.89	1.19	3.94	7.84	23.83	0.86	22.43	25.23	0.60	0.60	1.75
E 0.40	7	-0.91	0.82	-2.25	0.43	6.26	1.10	4.45	8.06	23.17	0.89	21.70	24.63	0.79	0.79	2.53
T 0.50	7	-0.67	0.76	-1.91	0.56	6.32	1.07	4.55	8.08	22.56	0.88	21.22	23.89	0.66	0.66	3.19
U 0.60	7	-0.34	0.72	-1.52	0.85	6.61	1.12	4.78	8.45	22.36	0.78	20.79	23.33	0.67	0.67	3.80
R 0.70	7	-0.13	0.79	-1.39	1.18	6.66	1.04	4.95	8.37	21.80	0.81	20.48	23.12	0.35	0.35	4.21
N 0.80	7	0.14	0.82	-1.21	0.73	6.73	1.01	5.07	8.40	21.56	0.84	20.18	22.93	0.35	0.35	4.55
O.90	7	0.31	0.81	-1.03	1.64	6.74	0.92	5.23	8.25	21.42	0.82	20.11	22.79	0.20	0.20	4.76
T 1.00	7	0.62	0.98	-0.96	2.20	6.73	0.75	5.50	7.95	21.44	0.73	20.21	22.60	0.32	0.32	5.09

LANDMARK - LT ELBOW CENTER (25)

TIME T	SAMPLE SIZE, N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	5.21	0.55	4.32	6.11	11.84	1.18	9.90	13.77	12.97	1.19	11.03	14.92	0.0	0.0	0.0	0.0
F	7	4.50	0.65	3.44	5.56	12.33	0.75	11.10	13.56	13.45	1.61	10.80	16.09	0.99	0.99	0.99	0.99
R	7	4.18	1.09	2.40	5.96	13.09	0.97	11.49	14.69	15.75	2.46	11.71	19.79	2.45	3.44	3.44	3.44
D	7	4.05	1.71	1.25	6.85	13.68	1.22	11.67	15.69	19.49	2.81	14.89	24.09	3.79	7.23	7.23	7.23
R	7	3.26	2.07	-0.13	6.65	14.22	1.39	11.93	16.50	23.57	2.65	19.23	27.91	4.19	11.41	11.41	11.41
W	7	2.06	2.19	-1.52	5.65	13.94	1.27	11.86	16.02	26.76	2.72	24.72	28.81	3.42	14.84	14.84	14.84
A	7	0.60	2.22	-3.03	4.23	12.98	1.08	11.22	14.74	29.43	1.01	27.78	31.09	3.19	18.03	18.03	18.03
R	7	0.70	2.22	-4.33	2.94	12.10	0.97	10.51	13.70	30.94	0.81	29.58	32.24	2.15	20.18	20.18	20.18
D	7	-1.29	1.98	-4.53	1.95	11.59	0.86	10.07	12.90	31.59	0.65	30.52	32.66	1.09	21.27	21.27	21.27
N	7	-1.11	1.76	-4.00	1.78	11.21	0.75	9.98	12.43	31.34	0.55	31.00	32.81	0.45	21.73	21.73	21.73
1.00	7	-1.01	1.66	-3.73	1.72	11.15	1.04	9.45	12.85	31.94	0.48	31.15	32.73	0.13	21.85	21.85	21.85
0.0	7	-1.01	1.66	-3.73	1.72	11.15	1.04	9.45	12.85	31.94	0.48	31.15	32.73	0.0	0.0	0.0	0.0
0.10	7	0.08	2.12	-3.40	3.56	12.08	1.09	10.29	13.87	30.57	0.71	29.41	31.73	1.98	1.98	1.98	1.98
O	7	1.56	2.49	-2.51	5.64	13.23	1.16	11.33	15.14	28.46	1.02	26.79	30.12	2.83	4.80	4.80	4.80
R	7	2.92	2.35	-0.94	6.78	13.99	1.08	12.22	15.75	25.51	1.48	23.18	28.04	3.24	8.05	8.05	8.05
E	7	3.95	2.19	0.36	7.53	14.03	1.19	12.19	15.08	22.13	2.05	18.77	25.49	3.63	11.67	11.67	11.67
T	7	0.50	1.77	4.07	1.16	6.98	13.49	1.23	11.48	15.50	18.57	2.29	14.81	22.32	3.61	15.23	15.23
U	7	0.60	1.30	4.02	1.89	6.16	1.19	11.07	14.96	16.22	2.27	12.50	19.94	2.40	17.63	17.63	
R	7	0.70	1.27	0.91	2.77	5.77	12.08	1.19	10.34	14.23	13.65	1.76	10.97	16.74	2.49	20.17	20.17
N	7	0.59	0.76	3.34	5.83	12.08	1.14	10.21	13.95	13.46	1.25	11.40	15.51	0.55	20.72	20.72	
O	7	0.82	0.57	3.88	5.76	11.98	1.29	9.86	14.09	13.34	1.8	10.88	15.73	0.29	21.01	21.01	
W	7	0.21	0.55	4.32	6.11	11.84	1.18	9.90	12.97	13.77	1.19	11.03	14.92	0.53	21.54	21.54	

LANDMARK - LT WRIST CENTER (27)

TIME T	SAMPLE SIZE, N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	4	15.22	0.26	14.79	15.65	10.62	0.63	9.26	12.23	11.98	1.35	11.65	12.81	0.0	0.0	0.0	0.0
O	4	13.13	0.85	11.73	14.53	10.74	0.35	10.18	11.31	15.97	2.08	12.56	19.38	4.29	4.29	4.29	4.29
F	4	9.95	2.22	6.31	13.58	10.92	0.66	9.83	12.01	22.31	1.81	19.34	25.28	7.10	11.38	11.38	11.38
O	4	7.45	3.08	2.41	12.50	10.55	1.07	8.79	12.31	28.04	3.16	22.83	33.19	6.23	17.62	17.62	17.62
R	7	5.16	1.66	2.43	7.88	10.52	1.09	8.73	12.31	31.46	1.63	28.79	34.14	4.15	21.76	21.76	21.76
W	7	2.01	1.66	-0.71	4.73	10.27	1.16	8.36	12.18	36.09	1.39	33.81	38.37	5.60	27.36	27.36	27.36
A	7	-0.95	2.01	-4.24	2.35	9.79	1.09	7.99	11.58	40.44	1.87	36.96	43.11	4.96	32.32	32.32	32.32
R	7	-2.09	1.38	-4.36	0.16	9.63	1.06	7.90	11.37	42.02	2.14	38.52	45.53	2.30	34.62	34.62	
D	7	-1.54	1.57	-4.11	1.03	9.88	1.12	8.04	11.72	41.50	0.67	40.39	42.60	0.80	35.42	35.42	
O	7	-1.26	1.29	-3.38	0.86	10.02	0.87	8.60	11.45	41.90	0.52	41.05	42.75	0.51	35.93	35.93	
W	6	-0.84	1.15	-2.73	1.04	10.17	0.59	9.23	11.14	41.74	0.36	41.14	42.34	0.47	36.39	36.39	
O	6	-0.84	1.15	-2.73	1.04	10.17	0.59	9.20	11.14	41.74	0.36	41.14	42.34	0.47	36.39	36.39	
O	6	-0.28	1.79	-3.23	2.66	9.84	0.72	8.66	11.01	40.34	1.05	38.62	42.07	1.54	1.54	1.54	
R	7	4.98	1.30	-0.15	4.13	9.54	0.72	8.36	10.72	36.19	1.64	33.50	38.88	4.74	6.28	6.28	
E	7	6.62	2.29	3.02	6.95	9.47	0.75	8.24	10.69	31.56	3.36	26.01	37.02	5.55	11.64	11.64	
T	7	8.56	1.42	10.38	9.42	10.88	0.84	8.04	10.80	29.66	2.19	25.68	32.84	2.79	14.62	14.62	
U	4	10.48	0.34	9.91	11.04	9.84	1.26	7.78	11.90	21.40	2.08	16.43	25.89	5.23	23.64	23.64	
R	4	12.60	0.51	11.76	13.44	10.09	1.13	8.23	11.94	16.94	1.52	14.44	19.43	4.73	28.37	28.37	
N	4	13.61	1.44	11.74	15.48	10.18	1.26	8.11	12.25	14.86	2.18	10.98	18.78	2.29	30.66	30.66	
O	4	15.05	1.93	11.78	18.32	10.81	1.18	8.87	12.75	11.30	3.11	6.26	16.46	3.85	34.52	34.52	
W	4	15.22	0.79	15.65	14.79	14.79	0.83	9.26	11.98	12.23	0.13	11.65	12.81	0.91	35.42	35.42	

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO OVER-HEAD CONTROLLER AT 0.0, +10.0, +47.3 AND RETURNS. RIGHT HAND REMAINS AT SIDE-ARM CONTROLLER AT +15.0, -13.0, +4.8.

MOTION NUMBER - 22230
BACK ANGLE - 13

SUB-MOVEMENT

TIME DATA-----		
	MEAN	STD DEV
LEFT FWD	0.89	0.07
LEFT REV	0.74	0.10

RANGE

0.80 TO 1.00 SECS.

0.60 TO 0.90 SECS.

LANDMARK - NASTION

(1)

TIME	SAMPLE T	CO-ORDINATE			CO-ORDINATE			CO-ORDINATE			CO-ORDINATE				
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT		
0.0	7	5.87	1.04	4.21	7.52	0.12	1.25	-1.93	2.17	29.24	1.13	27.34	31.06		
0.10	7	3.03	1.78	0.10	5.95	0.62	0.40	1.65	21.65	1.24	29.67	33.63	3.78		
F	7	1.57	2.03	-1.77	4.90	0.26	0.62	-0.76	1.27	32.10	0.96	30.52	33.68	1.57	
D	7	0.30	0.78	1.94	3.92	0.37	0.64	-0.99	1.12	32.25	0.99	30.63	33.87	0.82	
R	7	0.40	1.81	-2.36	3.10	0.04	0.73	-1.24	1.16	32.69	1.03	30.60	33.97	0.66	
W	7	0.50	0.36	1.84	-3.39	2.66	-0.15	0.84	-1.52	1.23	32.38	0.98	30.76	33.99	0.52
A	7	0.60	0.72	-1.86	-3.78	2.33	-0.19	0.78	-1.47	1.09	32.38	1.04	30.67	34.09	0.36
R	7	0.70	0.82	-2.07	-4.22	2.58	-0.35	0.70	-1.49	0.83	32.32	1.12	30.52	34.19	0.18
D	7	0.80	0.40	2.12	-4.28	2.67	-0.50	0.68	-1.62	0.63	32.33	1.03	30.64	34.01	0.15
N	7	0.90	0.74	2.04	-4.38	2.64	-0.61	0.51	-1.45	0.63	32.37	0.91	30.78	33.75	0.20
1.00	7	-0.21	1.99	-3.47	3.05	-0.53	0.53	-1.48	0.42	32.08	0.91	30.58	33.58	0.57	
0.0	7	-0.21	1.99	-3.47	3.05	-0.53	0.58	-1.48	0.42	32.08	0.91	30.58	33.58	0.0	
0.10	7	2.43	2.13	-1.07	5.92	-0.35	0.79	-1.64	0.94	30.94	1.21	28.92	32.89	2.89	
0.20	7	3.70	2.03	0.43	6.98	-0.34	0.89	-1.80	1.11	30.30	1.33	28.12	32.48	1.41	
R	7	4.18	1.51	1.69	6.66	-0.40	0.98	-2.01	1.21	30.09	1.29	27.97	32.21	0.52	
E	7	4.59	1.24	2.60	6.58	-0.38	1.20	-2.35	1.59	29.94	1.22	27.91	31.91	0.45	
T	7	5.00	0.93	3.44	6.46	-0.44	1.25	-2.49	1.61	29.71	1.15	27.83	31.59	0.40	
U	7	6.60	5.34	0.88	3.89	6.79	-0.32	1.29	-2.44	1.79	29.58	1.07	27.34	31.34	0.44
O	7	7.00	5.54	1.03	3.85	7.22	-0.15	1.41	-2.46	2.15	29.48	1.08	27.71	31.24	0.29
N	7	7.80	5.66	1.08	3.88	7.44	-0.03	1.35	-2.25	2.17	29.35	1.11	27.53	31.17	0.21
U	9.0	7	5.82	1.06	4.07	7.56	0.05	1.28	-2.06	2.15	29.22	1.18	27.28	31.15	0.22
1.00	7	5.01	4.21	7.52	0.12	1.25	-1.93	2.17	2.20	1.13	29.24	1.13	27.34	31.06	0.09
5.0d7	7													6.92	

LANDMARK - CERVICALE

(2)

TIME	SAMPLE T	CO-ORDINATE			CO-ORDINATE			CO-ORDINATE			CO-ORDINATE				
		MEAN	SE	5 PCT											
0.0	7	-0.37	1.37	-3.21	1.28	1.92	1.29	-4.03	0.19	23.4b	0.97	21.89	25.08	0.0	
0.10	7	-1.39	0.84	-2.77	-0.02	-1.47	0.88	-2.92	-0.02	23.49	0.95	21.93	25.05	0.62	
F	7	-1.85	0.73	-3.04	-0.65	-1.74	0.69	-2.87	-0.60	23.62	1.01	21.96	25.27	0.54	
O	7	-1.99	0.67	-3.09	-0.60	-1.96	0.98	-3.57	-0.62	23.52	1.02	21.86	25.19	1.16	
O	7	-2.07	0.79	-3.36	-0.78	-2.14	0.93	-3.67	-0.61	23.50	1.06	21.77	25.23	0.28	
W	7	-2.40	0.79	-3.79	-1.11	-2.05	1.01	-3.70	-0.39	23.53	0.99	21.91	25.15	1.45	
A	7	-2.43	0.78	-3.71	-1.15	-2.15	1.09	-3.94	-0.36	23.57	1.04	21.87	25.27	0.35	
R	7	-2.43	0.71	-3.60	-1.27	-2.35	1.01	-4.01	-0.69	23.64	1.06	21.89	25.38	0.21	
D	7	-2.45	0.80	-3.77	-1.13	-2.44	0.83	-3.84	-0.67	23.67	0.99	22.06	25.29	0.10	
U	9.0	7	-2.58	0.83	-3.93	-1.22	-2.57	1.03	-4.25	-0.88	23.64	0.97	22.05	25.41	0.18
1.00	7	-2.26	0.76	-3.50	-1.02	-2.41	0.79	-3.71	-0.11	23.58	1.04	21.87	25.24	0.95	
0.0	7	-2.26	0.76	-3.50	-1.02	-2.41	0.79	-3.71	-0.11	23.58	1.04	21.87	25.28	0.0	
0.10	7	-2.19	0.72	-3.38	-1.01	-2.34	1.04	-4.04	-0.65	23.59	0.90	22.12	25.06	0.9	
R	7	-2.04	0.87	-3.47	-0.60	-2.39	1.22	-4.40	-0.39	23.64	0.85	22.24	25.04	0.17	
R	7	-1.90	0.99	-3.53	-0.28	-2.49	1.14	-4.36	-0.62	23.55	0.83	22.22	25.09	0.16	
E	7	-1.65	0.88	-3.10	-0.24	-2.47	1.00	-4.11	-0.83	23.52	0.83	22.26	24.98	0.69	
T	7	-1.43	1.02	-3.10	0.25	-2.47	1.01	-4.14	-0.81	23.56	0.89	22.23	25.14	0.23	
U	60	7	-1.26	1.11	-3.08	0.55	-2.36	1.17	-4.29	-0.44	23.53	0.97	22.03	25.22	0.21
R	70	7	-1.18	1.10	-2.99	0.62	-2.07	1.25	-4.11	-0.03	23.57	0.99	21.95	25.20	0.31
N	80	7	-1.04	1.27	-3.13	1.05	-2.02	1.26	-4.08	0.04	23.53	0.91	22.04	25.01	0.16
O	90	7	-0.94	1.40	-3.23	1.35	-1.95	1.24	-3.79	0.09	23.45	0.94	21.96	24.94	0.15
1.00	7	-0.97	1.37	-3.21	1.28	-1.92	1.28	-4.03	0.19	23.48	0.97	21.89	25.03	0.06	

LANDMARK - SUPRASENTRALE (3)

TIME T	SAMPLE SIZE, N	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			DISTANCE MOVED INCR	CUM
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT		
0.0	7	2.62	1.62	-0.04	5.29	-0.86	1.10	-2.66	0.93	22.54	0.91	21.05
0.10	7	2.30	1.47	-0.11	4.72	-0.65	1.20	-2.63	1.32	22.74	0.92	21.23
F 0.20	7	1.93	1.65	-1.03	4.63	-1.03	0.79	-2.33	0.27	23.27	0.91	24.57
D 0.30	7	1.63	1.76	-1.26	4.52	-1.16	0.80	-2.46	0.15	23.01	0.75	24.24
R 0.40	7	1.42	1.57	-1.16	3.99	-1.38	0.87	-2.84	0.05	22.97	0.70	24.11
W 0.50	7	1.19	1.41	-1.13	1.20	-1.20	0.92	-2.72	0.31	23.34	0.68	24.15
A 0.60	7	4.35	7.98	-8.74	17.45	-4.45	9.63	-20.25	1.34	23.38	1.03	21.70
R 0.70	7	6.90	14.48	-16.85	30.65	-7.19	16.22	-33.79	1.42	23.50	1.45	21.22
D 0.80	7	0.93	1.59	-1.69	3.54	-1.58	1.03	-3.27	0.11	23.28	0.86	21.86
N 0.90	7	1.00	1.69	-1.77	3.77	-1.37	1.21	-3.36	0.61	23.27	0.83	21.91
1.00	7	1.16	1.63	-1.51	3.82	-1.17	1.21	-3.15	0.82	23.25	0.90	21.78
0.0	7	1.16	1.63	-1.51	3.82	-1.17	1.21	-3.15	0.82	23.25	0.90	21.78
0.10	7	1.51	1.61	-1.12	4.15	-1.26	1.30	-3.38	0.87	23.16	0.78	21.89
0.20	7	1.70	1.58	-0.89	4.29	-1.25	1.27	-3.34	0.83	23.14	0.74	24.35
R 0.30	7	1.75	1.53	-0.76	4.27	-1.29	1.24	-3.33	0.75	23.13	0.75	24.36
E 0.40	7	1.94	1.57	-0.63	4.51	-1.42	0.57	-3.01	0.34	23.04	0.81	24.38
T 0.50	7	2.19	1.57	-0.38	4.76	-1.33	1.11	-3.15	0.50	22.94	1.00	21.29
U 0.60	7	2.39	1.61	-0.25	5.03	-1.26	1.03	-2.95	0.43	22.92	0.77	21.65
R 0.70	7	2.52	1.74	-0.34	5.38	-1.13	1.06	-2.88	0.61	22.84	0.76	21.56
N 0.80	7	2.57	1.84	-0.46	5.59	-1.02	1.08	-2.79	0.75	22.63	0.77	21.37
W 0.90	7	2.65	1.77	-0.26	5.55	-0.96	1.10	-2.76	0.83	22.58	0.80	21.89
1.00	7	2.62	1.62	-0.04	5.29	-0.86	1.10	-2.66	0.93	22.54	0.91	21.05

LANDMARK - LT ACRUMION (5)

TIME T	SAMPLE SIZE, N	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			DISTANCE MOVED INCR	CUM	
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT			
0.0	6	-0.56	0.84	-1.94	5.29	1.06	8.03	22.63	0.86	21.23	24.04	0.0	
0.10	6	-1.32	0.80	-2.62	0.01	6.22	0.97	4.64	7.80	22.82	0.81	24.18	
F 0.20	6	-1.95	1.00	-3.59	-0.31	5.67	1.13	3.81	7.52	23.19	1.00	21.55	
D 0.30	4	-2.41	0.77	-3.68	-1.15	5.03	0.84	3.65	6.40	23.44	1.32	21.27	
R 0.40	3	-3.21	0.99	-4.83	-1.59	4.73	1.15	2.85	6.62	23.43	1.60	20.82	
W 0.50	3	-2.94	0.75	-4.18	-1.71	4.11	1.41	1.70	6.53	23.54	1.63	22.87	
A 0.60	1	-1.39	0.0	-1.39	-1.39	1.63	0.0	1.63	25.14	0.0	25.10	25.10	
R 0.70	1	-1.45	0.0	-1.45	-1.45	1.39	0.0	1.39	25.53	0.0	25.03	25.03	
D 0.80	1	-1.48	0.0	-1.48	-1.48	1.46	0.0	1.46	25.08	0.0	25.08	25.08	
N 0.90	1	-2.59	0.0	-2.59	-2.59	2.61	0.0	2.61	25.96	0.0	25.96	25.96	
1.00	1	-6.30	0.0	-6.30	-6.30	6.62	0.0	6.62	28.32	0.0	28.32	28.32	
0.0	1	-6.30	0.0	-6.30	6.62	0.0	6.62	6.62	28.32	0.0	28.32	0.0	
0.10	1	-3.02	0.0	-3.02	3.36	0.0	3.36	3.35	26.38	0.0	26.38	5.01	
F 0.20	1	-1.55	0.0	-1.55	1.98	0.0	1.98	1.98	25.37	0.0	25.37	7.27	
R 0.30	1	-1.40	0.0	-1.40	2.01	0.0	2.01	2.01	25.09	0.0	25.09	0.32	
E 0.40	2	-0.15	-0.15	-0.15	4.16	3.09	-0.91	9.22	24.32	1.00	22.68	2.31	
T 0.50	2	-1.22	0.76	-2.46	0.02	4.36	2.85	2.85	24.57	1.42	21.75	0.65	
U 0.60	3	-1.11	0.83	-2.47	0.25	4.82	1.73	1.99	23.79	1.24	21.76	1.10	
R 0.70	5	-1.12	0.97	-2.71	5.97	1.51	3.50	8.45	23.52	0.89	22.05	1.18	
N 0.80	5	-0.97	1.01	-2.62	6.69	1.40	4.03	8.62	23.34	0.67	22.23	1.28	
O 0.90	5	-0.76	1.00	-2.40	0.87	6.39	1.21	4.42	8.37	23.14	0.55	22.24	1.43
1.00	6	-0.56	0.84	-1.94	0.81	6.29	1.06	4.55	8.03	22.63	0.86	21.23	0.55

LANDMARK - LT GRIP CENTER (17)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	5	1.077	0.53	1.690	18.65	9.59	0.65	8.52	10.66	12.84	0.30	12.31	13.29	0.0	0.0	0.0	0.0	
0.0	5	15.61	0.68	15.49	17.73	10.10	0.57	9.16	11.05	17.23	0.88	15.79	18.67	4.61	4.61	4.61	4.61	
0.10	6	12.14	1.91	15.28	10.17	0.88	8.73	8.79	11.60	24.39	2.32	21.18	28.81	8.96	8.96	8.96	8.96	
F	6	6.47	3.46	0.79	12.15	10.32	0.53	8.79	11.65	32.36	5.43	23.46	41.27	9.30	9.30	9.30	9.30	
U	0.30	6	3.42	1.06	5.78	10.32	1.15	8.44	12.20	34.90	0.81	33.57	36.24	3.97	3.97	3.97	3.97	
R	0.40	6	1.44	1.06	3.19	10.04	1.19	8.08	12.00	37.53	1.26	35.57	39.70	3.91	3.91	3.91	3.91	
W	6	0.64	1.55	-1.90	3.19	10.04	1.19	8.08	12.00	37.53	1.26	35.57	39.70	3.91	3.91	3.91	3.91	
A	0.50	6	-2.70	2.98	2.19	9.71	1.04	8.01	11.48	41.53	3.45	36.17	47.49	5.37	5.37	5.37	5.37	
R	0.70	6	-2.33	1.14	-4.19	-0.47	9.34	0.60	8.36	10.32	42.54	1.24	40.57	44.65	0.94	0.94	0.94	0.94
D	0.80	5	-1.93	0.98	-3.53	-0.32	9.28	0.44	8.57	10.00	43.89	0.85	42.49	45.29	1.34	1.34	1.34	1.34
O	0.90	5	-1.58	0.85	-2.98	-0.19	9.35	0.45	8.61	10.09	44.94	0.76	43.66	46.16	1.08	1.08	1.08	1.08
N	1.00	4	-3.83	0.36	-1.42	-0.24	9.63	0.15	9.39	9.87	44.72	0.54	43.83	45.60	0.63	0.63	0.63	0.63
T	1.00	5	17.77	4.08	-0.36	-1.42	-0.24	9.63	0.15	9.39	9.87	44.72	0.54	43.83	45.60	0.0	0.0	0.0
U	0.60	6	13.33	4.08	6.64	20.02	8.31	0.97	6.72	9.91	21.32	7.07	14.32	33.51	7.03	7.03	7.03	7.03
R	0.70	6	15.75	3.34	21.24	8.95	1.04	6.86	11.04	18.27	5.47	9.30	27.25	4.42	31.75	31.75	31.75	31.75
N	0.80	6	16.54	1.49	14.10	18.99	8.95	0.54	8.06	9.84	16.44	2.39	12.52	20.37	1.99	33.74	33.74	33.74
O	0.90	5	17.10	0.62	16.08	18.12	9.31	0.60	8.32	10.33	14.39	1.09	12.59	16.18	2.16	35.90	35.90	35.90
W	1.00	5	17.77	0.53	16.90	18.65	9.59	0.65	8.52	10.66	12.80	0.30	12.31	13.29	1.75	37.65	37.65	37.65

LANDMARK - LT TROCHANTER (19)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	7	4.22	0.72	3.05	5.49	6.53	0.43	5.82	7.24	3.94	2.97	3.33	4.47	0.0	0.0	0.0	0.0	
0.10	7	4.38	0.68	3.27	5.49	6.74	0.47	5.90	7.51	3.94	3.94	3.34	4.46	0.26	0.26	0.26	0.26	
F	7	4.42	0.66	3.34	5.51	6.75	0.69	5.62	7.88	3.92	3.35	3.34	4.50	0.31	0.31	0.31	0.31	
O	0.30	7	4.49	0.68	3.38	6.60	0.74	0.95	5.18	3.94	0.37	3.29	4.50	0.38	0.38	0.38	0.38	
R	0.40	7	4.34	0.67	3.23	5.44	6.46	0.73	5.27	7.66	3.94	3.29	4.54	0.31	0.71	0.71	0.71	
W	7	4.29	0.71	3.12	5.44	6.49	0.61	5.49	7.48	3.99	0.34	3.43	4.55	0.09	0.79	0.79	0.79	
A	0.60	7	4.36	0.67	3.26	5.46	6.54	0.58	5.59	7.50	4.29	0.29	3.58	4.53	0.12	0.90	0.90	0.90
R	0.70	7	4.39	0.63	3.35	5.43	6.47	0.64	5.41	7.52	4.41	0.30	3.51	4.50	0.10	1.00	1.00	1.00
D	0.80	7	4.33	0.75	3.10	5.50	6.42	0.70	5.26	7.57	3.93	0.29	3.48	4.43	0.09	1.09	1.09	1.09
O	0.90	7	4.28	0.72	3.10	5.47	6.33	0.66	5.30	7.46	4.22	0.32	3.49	4.55	0.09	1.18	1.18	1.18
W	1.00	7	4.39	0.60	3.41	5.38	6.72	0.60	5.73	7.71	3.87	0.20	3.54	4.20	0.39	1.57	1.57	1.57
A	0.0	7	4.39	0.60	3.41	5.38	6.72	0.60	5.73	7.71	3.87	0.20	3.54	4.20	0.0	0.0	0.0	0.0
U	0.40	7	4.41	0.55	3.51	6.65	6.46	0.46	5.89	7.41	3.94	0.18	4.21	5.09	0.09	0.09	0.09	0.09
V	0.20	7	4.42	0.61	3.43	5.41	6.63	0.46	5.87	7.39	3.94	0.19	4.23	5.02	0.11	0.11	0.11	0.11
R	0.30	7	4.37	0.74	3.16	5.57	6.58	0.66	5.49	7.66	3.93	0.29	4.44	5.28	0.19	0.19	0.19	0.19
E	0.40	7	4.30	0.76	3.06	5.45	6.45	0.72	5.28	7.63	3.94	0.37	3.33	4.55	0.14	0.32	0.32	0.32
T	0.50	7	4.27	0.76	3.02	5.51	6.42	0.65	5.30	7.48	3.94	0.32	3.36	4.44	0.07	0.39	0.39	0.39
U	0.60	7	4.38	0.68	3.27	5.50	6.49	0.50	5.66	7.32	3.86	0.33	3.34	4.43	0.14	0.53	0.53	0.53
R	0.70	7	4.38	0.66	3.30	5.47	6.58	0.52	5.73	7.43	3.89	0.35	3.31	4.47	0.10	0.63	0.63	0.63
N	0.80	7	4.34	0.68	3.23	5.45	6.55	0.60	5.50	7.54	3.92	0.36	3.34	4.51	0.06	0.69	0.69	0.69
O	0.90	7	4.35	0.75	3.12	5.52	6.52	0.52	5.67	7.37	3.89	0.35	3.32	4.46	0.14	0.74	0.74	0.74
W	1.00	7	4.22	0.72	3.05	5.40	6.53	0.43	5.82	7.24	3.87	0.33	3.33	4.47	0.12	0.85	0.85	0.85

LANDMARK - LT KNEE TOP (21)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)			(- - - Y - CO-ORDINATE - - -)			(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	20.32	0.99	18.70	21.94	5.83	0.86	4.42	7.25	11.35	1.59	8.74	13.96	
0.0	I	20.57	0.63	19.60	21.60	6.03	0.89	4.45	7.49	11.46	1.53	8.95	13.98	
F	0.20	5	20.27	0.71	19.11	21.44	5.77	0.90	4.49	7.25	11.56	1.50	9.11	14.01
D	0.30	5	20.20	0.89	18.75	21.65	5.78	0.90	4.31	7.25	11.52	1.45	9.15	13.90
R	0.40	5	20.25	1.03	18.95	21.94	5.79	0.90	4.22	7.19	11.53	1.37	9.28	13.79
W	0.50	5	20.40	1.01	18.74	22.05	5.59	0.85	4.20	6.98	11.52	1.39	9.23	13.80
A	0.60	5	20.39	0.93	18.87	21.92	5.67	0.72	4.49	6.85	11.63	1.45	9.26	14.00
R	0.70	5	20.37	0.97	18.84	21.89	5.61	0.85	4.22	7.00	11.57	1.48	9.14	13.99
D	0.80	5	20.41	0.97	18.81	22.00	5.68	0.87	4.25	7.12	11.53	1.41	9.23	13.84
N	0.90	5	20.29	0.97	18.71	21.88	5.62	0.87	4.19	7.05	11.71	1.40	9.21	13.81
1.00		5	20.46	0.81	19.13	21.79	5.82	0.92	4.32	7.33	11.63	1.45	9.04	13.81
0.0		5	20.46	0.81	19.13	21.79	5.82	0.92	4.32	7.33	11.43	1.45	9.04	13.81
0.10		5	20.45	0.75	19.22	21.67	5.79	0.81	4.45	7.12	11.56	1.43	9.22	13.89
0.20		5	20.48	0.82	19.14	21.81	5.68	0.80	4.36	6.99	11.56	1.40	9.26	13.86
R	0.30	5	20.41	0.89	18.94	21.88	5.63	0.84	4.26	7.03	11.49	1.35	9.28	13.70
E	0.40	5	20.40	1.00	18.77	22.04	5.65	0.86	4.25	7.06	11.50	1.35	9.28	13.71
T	0.50	5	20.36	1.08	18.60	22.13	5.60	0.87	4.17	7.03	11.52	1.32	9.35	13.69
U	0.60	5	20.41	0.86	19.30	21.82	5.73	0.77	4.48	6.99	11.54	1.41	9.20	13.82
R	0.70	5	20.33	0.79	19.04	21.62	5.67	0.72	4.49	6.86	11.52	1.56	8.95	14.07
N	0.80	5	20.30	0.91	18.80	21.80	5.65	0.79	4.36	6.94	11.46	1.55	8.93	14.00
0.90	4	20.35	1.01	18.69	22.01	5.83	0.88	4.38	7.28	11.53	1.76	8.65	14.41	
1.00	4	20.32	0.99	18.70	21.94	5.83	0.86	4.42	7.25	11.35	1.59	8.74	13.96	

LANDMARK - LT SHOULDER CENTER (23)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)			(- - - Y - CO-ORDINATE - - -)			(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	6	0.58	0.81	-0.14	1.90	6.93	1.14	5.06	8.80	21.53	0.61	19.69	
0.10	I	6	-0.37	0.76	-1.61	0.87	6.91	0.88	5.48	8.35	21.34	0.73	20.14	
F	0.20	7	-1.02	0.82	-2.35	7.02	7.13	1.32	9.37	11.52	19.76	1.35	23.48	
O	0.30	7	-1.02	0.67	-2.13	0.08	7.16	1.48	9.74	9.59	22.19	1.11	20.37	
R	0.40	7	-0.85	0.31	-1.36	-0.34	6.85	1.24	4.82	8.87	23.03	1.25	20.98	
W	0.50	7	-1.22	0.70	-2.37	-0.07	6.66	1.30	4.53	7.79	23.99	1.07	22.23	
A	0.60	7	-1.62	0.87	-3.05	-0.20	6.36	1.37	4.12	8.61	24.44	0.89	22.97	
R	0.70	7	-1.91	0.72	-3.10	-0.73	6.09	1.46	3.69	8.49	24.93	0.87	23.51	
D	0.80	7	-2.02	0.76	-3.27	-1.05	5.86	1.29	3.74	7.98	25.08	0.86	23.66	
N	0.90	7	-2.18	0.69	-3.31	-1.05	5.84	1.07	4.07	7.61	25.24	1.03	23.52	
1.00	7	-1.98	0.69	-3.11	-0.84	5.63	1.19	3.68	7.59	25.35	1.06	23.32	26.79	
0.0		7	-1.98	0.69	-3.11	-0.84	5.63	1.19	3.68	7.59	25.35	1.06	23.32	26.79
0.10		7	-1.73	1.00	-3.37	-0.09	6.05	1.35	3.85	8.26	24.94	0.72	23.76	26.12
0.20		7	-1.35	0.89	-2.82	0.11	6.37	1.39	4.09	8.65	24.55	0.66	23.48	25.63
R	0.30	7	-1.15	0.66	-2.24	-0.37	6.51	1.31	4.42	8.72	23.85	0.77	22.59	25.10
E	0.40	7	-1.01	0.63	-2.04	0.04	6.61	1.37	4.36	8.85	22.94	0.92	21.42	24.45
T	0.50	7	-0.90	0.78	-2.48	0.37	6.72	1.29	4.61	8.84	22.37	1.05	20.64	24.09
U	0.60	7	-0.56	0.90	-2.03	0.91	6.79	1.25	4.74	8.83	21.68	1.06	19.94	23.42
R	0.70	7	-0.16	0.73	-1.35	1.03	6.79	1.15	4.90	8.68	21.17	0.99	19.55	22.79
N	0.80	7	0.04	0.68	-1.03	1.16	6.67	1.10	5.07	8.67	21.12	0.98	19.51	22.74
0.90	6	0.36	0.78	-0.92	1.63	6.70	1.09	5.06	8.34	21.49	0.82	19.84	22.54	
1.00	6	0.58	0.81	-0.74	1.90	6.93	1.14	5.06	8.80	21.53	0.81	19.69	23.36	

LANDMARK - LT ELBOW CENTER (25)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE							
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
0.0	T	4.81	1.00	3.17	6.45	11.30	0.66	10.23	12.38	13.17	1.64	10.47	15.86	0.0	0.0	0.0	0.0		
	SIZE,N	6	5	4.57	0.64	3.52	5.63	12.17	0.99	10.54	1.42	1.26	1.62	15.95	1.44	1.44	1.44	1.44	
0.10	F	4.00	2.00	5	4.22	0.61	2.22	5.22	13.44	1.16	11.54	1.61	0.72	1.49	17.33	2.28	3.72	3.72	3.72
0.20	R	4.09	0.80	6	4.09	2.71	5.47	13.91	0.96	12.34	15.49	2.30	1.50	15.84	23.38	3.50	7.22	7.22	7.22
0.30	U	4.00	6	3.37	1.27	1.29	5.45	14.33	0.98	12.72	15.95	3.77	1.80	18.03	30.41	4.68	11.70	11.70	11.70
0.40	R	4.00	6	2.01	1.41	0.41	4.51	14.19	0.95	12.64	15.75	2.44	1.77	18.03	30.41	4.68	11.70	11.70	11.70
0.50	W	4.00	6	2.00	1.41	0.41	4.51	14.19	0.95	12.64	15.75	2.44	1.77	18.03	30.41	4.68	11.70	11.70	11.70
A	A	6.00	6	0.73	1.43	1.62	3.07	14.43	0.82	12.08	15.82	2.83	1.10	27.01	30.62	2.85	17.31	17.31	17.31
K	K	0.70	6	-0.44	1.27	-2.49	1.67	12.58	0.88	11.15	14.02	30.26	0.97	28.67	31.85	2.02	19.34	19.34	19.34
D	D	6	-0.97	1.16	-2.87	0.93	11.97	0.99	10.34	13.59	31.24	0.82	29.87	32.56	1.26	20.60	20.60	20.60	
C	U	9.00	6	-1.15	1.12	-2.99	0.68	11.43	0.97	9.83	13.02	31.77	0.49	30.96	32.57	0.80	21.43	21.43	21.43
I	J	3.00	6	-0.70	1.25	-2.76	1.35	11.36	0.99	9.73	12.99	32.28	0.60	31.29	33.27	0.69	22.09	22.09	22.09
O	O	6	-0.73	1.25	-2.76	1.35	11.36	0.99	9.73	12.99	32.28	0.60	31.29	33.27	0.70	0.0	0.0	0.0	
P	O	1.0	6	0.84	1.47	-1.57	3.25	12.41	1.04	10.71	14.10	30.38	0.60	29.40	31.36	2.66	2.66	2.66	2.66
Q	P	2.00	6	2.64	1.67	-0.10	5.38	13.30	1.02	11.62	14.08	27.54	1.23	25.53	29.55	3.48	6.14	6.14	6.14
R	R	3.00	6	4.15	1.94	0.97	7.33	13.74	1.33	11.55	15.93	23.41	1.50	21.15	24.41	4.41	14.56	14.56	14.56
E	E	4.00	6	4.43	1.30	2.31	6.56	13.45	1.56	10.89	19.95	6.44	3.05	30.51	34.48	3.48	14.04	14.04	14.04
T	T	5.00	6	4.40	0.97	2.80	5.99	13.19	1.45	10.81	15.25	16.70	3.21	13.44	23.96	1.28	15.12	15.12	15.12
U	U	6.00	6	4.44	1.23	2.75	6.12	12.64	1.29	10.52	14.76	16.38	2.84	11.72	21.04	2.38	17.71	17.71	17.71
R	U	7.00	6	4.00	0.97	3.07	6.26	12.26	1.00	10.61	13.91	24.00	1.40	10.99	18.85	1.52	19.23	19.23	19.23
N	N	8.00	6	4.89	0.85	3.49	6.28	11.94	0.79	10.64	13.24	13.94	1.87	10.84	16.98	1.08	20.32	20.32	20.32
Q	Q	9.00	5	4.99	1.08	3.22	6.77	11.48	0.68	10.37	12.60	13.30	1.77	10.40	16.19	0.77	21.09	21.09	21.09
P	P	1.00	6	4.81	3.17	6.45	11.30	0.66	10.23	12.38	13.17	1.64	10.47	15.86	0.29	21.37	21.37	21.37	

LANDMARK - LT WRIST CENTER (27)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE							
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
0.0	T	14.74	0.54	13.86	15.62	10.31	0.94	8.77	11.50	13.24	0.55	14.11	17.58	0.0	0.0	0.0	0.0		
	SIZE,N	4	5	13.98	0.46	13.24	14.73	11.22	0.83	9.86	11.52	15.50	1.20	13.63	17.58	2.67	2.67	2.67	2.67
0.20	F	10.56	1.32	8.40	12.73	11.24	0.78	9.96	12.52	14.94	0.85	20.51	23.31	7.17	9.44	9.44	9.44	9.44	9.44
0.30	R	0.40	6	6.78	2.94	1.96	11.64	0.99	9.61	12.17	28.33	23.08	33.29	37.45	17.30	21.31	21.31	21.31	21.31
R	R	6.00	6	4.94	1.24	2.92	6.97	11.18	0.86	9.77	12.60	31.90	0.72	30.72	33.08	4.01	21.31	21.31	21.31
W	W	5.00	6	2.14	0.84	0.77	3.52	10.86	0.73	9.67	12.06	35.54	1.17	33.62	37.47	4.61	25.92	25.92	25.92
A	A	5	-1.58	2.69	-6.00	2.84	10.08	0.93	8.52	11.63	40.51	5.17	32.13	49.09	6.34	32.25	32.25	32.25	
R	R	7.00	5	-1.00	1.34	-3.20	1.20	0.73	9.05	11.43	39.55	1.09	37.76	41.34	1.22	33.47	33.47	33.47	
D	D	8.00	5	-1.38	1.29	-3.49	0.74	10.14	0.78	8.85	11.42	40.70	0.59	39.73	41.66	1.21	34.60	34.60	34.60
O	O	9.00	4	-1.34	1.27	-3.41	0.74	10.07	0.63	9.04	11.09	41.50	0.43	42.22	42.22	0.81	35.49	35.49	35.49
I	I	1.00	4	-0.75	0.96	-2.32	0.83	10.29	0.52	9.45	11.14	41.59	0.36	42.18	42.18	0.0	0.0	0.0	0.0
O	O	4	-0.75	0.96	-2.32	0.83	10.29	0.52	9.45	11.14	41.59	0.36	42.18	42.18	0.0	0.0	0.0	0.0	
P	P	2.00	6	2.79	1.79	-0.14	5.72	0.70	8.56	10.88	35.53	3.58	34.62	42.65	3.44	3.44	3.44	3.44	
R	R	3.00	7	4.04	1.73	1.20	6.88	9.57	0.90	8.10	14.04	33.00	3.24	29.66	41.40	3.60	7.04	7.04	7.04
E	E	4.00	5	4.89	1.92	1.74	8.03	9.48	0.94	7.95	11.01	31.18	2.04	27.84	34.52	2.01	9.37	9.37	9.37
T	T	5.00	5	7.42	1.69	4.65	10.19	9.23	0.86	7.82	10.64	27.09	2.18	23.52	30.60	4.02	16.10	16.10	16.10
U	U	6.00	5	10.32	1.59	7.72	12.93	9.49	0.67	8.39	10.60	22.42	3.23	17.16	27.74	5.43	22.17	22.17	22.17
R	R	7.00	5	12.80	2.68	8.40	17.19	9.84	1.14	7.97	11.71	17.95	4.73	10.21	25.72	5.14	27.31	27.31	27.31
N	N	8.00	4	13.25	0.63	12.21	14.28	9.87	0.88	8.42	11.31	16.83	1.73	14.00	19.66	1.22	28.53	28.53	28.53
U	U	9.00	4	14.14	0.66	13.06	15.22	10.20	1.08	8.44	11.97	14.74	1.11	16.54	22.91	2.31	30.84	30.84	30.84
I	I	14.74	4	14.74	0.54	13.86	15.62	10.31	0.94	8.77	11.86	13.24	0.55	14.11	16.63	1.63	32.48	32.48	32.48

MOVEMENT: RIGHT HAND MOVES FROM STICK CONTROLLER AT +20.0, 0.0, +12.4 TO PANEL CONTROLLER AT +24.7, +10.0, +23.0 AND RETURNS. THIS MOVEMENT IS PRECEDED BY LEFT HAND MOVING FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO STICK CONTROLLER AND IS FOLLOWED BY LEFT HAND RETURNING BACK TO STICK CONTROLLER.

MOTION NUMBER = 11140
BACK ANGLE = 1.3

SUB-MOVEMENT	TIME DATA			RANGE
	MEAN	STD DEV		
RGHT FWD	0.30	0.16	0.50	1.00 SECS.
RGHT REV	0.89	0.11	0.70	1.00 SECS.

LANDMARK - NASTION

(1)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)			(- - - Y - CO-ORDINATE - - -)			(- - - Z - CO-ORDINATE - - -)			DISTANCE MOVED			
		T SIZE, N	MEAN SE	5 PCT 95 PCT	MEAN SE	5 PCT 95 PCT	MEAN SE	5 PCT 95 PCT	MEAN SE	5 PCT 95 PCT	INCR CUM			
0.0	T	7	7.18	1.14	5.31	9.04	0.50	0.97	2.09	29.80	1.10	31.66	0.0	
0.0	U	7	6.22	0.95	4.65	7.78	1.07	1.71	-1.73	3.87	1.36	32.54	1.20	
0.0	F	7	6.14	1.18	4.19	8.08	1.69	1.64	-1.00	4.38	30.38	32.50	0.62	
0.0	R	7	6.05	1.19	4.09	7.91	2.29	1.50	-0.17	4.75	30.49	28.54	2.45	
0.0	E	7	5.84	1.27	3.76	7.91	2.72	1.37	0.48	4.97	30.55	32.43	0.62	
0.0	M	7	5.66	1.29	3.54	7.78	3.17	1.18	1.23	5.12	30.64	28.68	2.93	
0.0	A	7	5.58	1.42	3.26	7.90	3.46	1.16	1.25	5.30	30.59	32.41	0.48	
0.0	R	7	5.68	1.32	3.51	7.85	3.45	1.32	1.29	5.61	30.74	29.93	0.12	
0.0	D	7	5.59	1.51	3.11	8.07	3.67	1.63	1.00	6.34	30.67	32.46	0.25	
0.0	N	7	5.52	1.76	2.64	8.40	3.82	1.55	1.28	6.36	30.69	32.29	0.16	
0.0	O	7	5.61	1.77	2.71	8.50	3.98	1.60	1.36	6.61	30.58	29.04	4.26	
0.0	P	7	5.61	1.77	2.71	8.50	3.98	1.60	1.36	6.61	30.58	29.04	0.21	
0.0	Q	7	5.97	1.50	3.41	8.53	3.19	1.66	0.47	5.91	30.56	29.10	0.0	
0.0	R	7	6.37	1.03	4.69	8.05	2.87	1.30	0.74	5.03	30.34	32.02	0.87	
0.0	S	7	6.62	0.93	5.09	8.15	2.51	1.08	0.74	4.27	30.19	28.55	1.43	
0.0	T	7	6.69	1.01	5.03	8.34	2.21	1.11	0.39	4.03	30.07	28.09	1.89	
0.0	U	7	6.69	0.98	5.08	8.30	1.97	1.02	0.29	3.64	23.97	21.21	0.33	
0.0	V	7	6.69	1.00	5.04	8.33	1.64	0.95	0.08	3.21	29.94	27.94	2.22	
0.0	W	7	6.69	1.00	5.04	8.46	1.22	0.75	-0.01	2.45	29.37	27.80	0.32	
0.0	X	7	6.90	0.95	5.34	8.68	1.00	0.81	0.78	-0.47	2.10	29.74	31.95	2.61
0.0	Y	7	7.00	1.03	5.32	9.02	0.60	0.88	-0.83	2.04	1.17	27.81	0.48	3.29
0.0	Z	7	7.17	1.13	5.32	9.02	0.50	0.50	-1.09	2.09	0.80	31.99	0.42	3.71
0.0	A	7	7.18	1.14	5.31	9.04	0.50	0.50	-1.09	2.09	0.80	31.66	0.10	3.99
0.0	B	7	7.18	1.14	5.31	9.04	0.50	0.50	-1.09	2.09	0.80	31.66	0.10	4.09

LANDMARK - CERVICALE

(2)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)			(- - - Y - CO-ORDINATE - - -)			(- - - Z - CO-ORDINATE - - -)			DISTANCE MOVED		
		T SIZE, N	MEAN SE	5 PCT 95 PCT	MEAN SE	5 PCT 95 PCT	MEAN SE	5 PCT 95 PCT	MEAN SE	5 PCT 95 PCT	INCR CUM		
0.0	T	7	-0.81	1.07	0.95	-0.13	0.95	-1.68	1.42	23.39	1.10	22.08	0.0
0.0	U	7	-1.28	0.61	-2.29	-0.27	0.21	0.94	-1.33	1.75	24.11	1.30	0.0
0.0	F	7	-0.98	0.77	-2.25	-0.28	0.38	0.87	-1.05	1.80	24.04	1.27	0.62
0.0	R	7	-0.94	0.79	-2.24	-0.35	0.67	0.87	-0.75	2.09	24.23	1.24	0.97
0.0	E	7	-1.12	0.78	-2.39	-0.15	0.15	0.73	-0.68	2.13	24.23	22.20	1.27
0.0	M	7	-1.03	0.69	-2.17	-0.11	0.92	0.49	0.13	1.72	24.42	21.96	1.40
0.0	A	7	-0.93	0.83	-2.29	-0.42	1.04	0.49	0.24	1.83	24.25	21.25	1.69
0.0	R	7	-0.48	0.75	-1.71	-0.75	1.37	0.64	0.31	2.42	24.27	21.27	1.84
0.0	D	7	-0.47	1.05	-2.19	-1.26	1.29	1.09	-0.49	3.08	24.24	21.07	2.44
0.0	N	7	-0.55	1.00	-2.26	-1.16	1.24	1.16	-0.66	3.14	24.22	21.07	2.50
0.0	O	7	-0.33	0.95	-1.88	-1.23	1.48	1.08	-0.28	3.25	24.24	21.07	2.60
0.0	P	7	-0.33	0.95	-1.88	-1.23	1.48	1.08	-0.28	3.25	24.44	22.85	2.93
0.0	Q	7	-0.83	1.12	-2.67	-1.01	1.29	0.99	-0.32	2.91	24.22	22.39	0.0
0.0	R	7	-0.74	1.00	-2.39	-0.90	1.43	0.89	-0.03	2.88	24.23	22.50	0.54
0.0	S	7	-0.70	1.01	-2.36	-0.76	1.36	0.76	0.11	2.61	24.15	22.43	0.70
0.0	T	7	-0.63	1.08	-2.40	-1.13	1.15	0.81	-0.18	2.47	24.24	21.12	0.81
0.0	U	7	-0.74	1.05	-2.47	-1.00	0.97	0.93	-0.56	2.50	24.05	22.30	0.21
0.0	V	7	-0.69	1.02	-2.36	-0.99	0.73	1.05	-1.00	2.45	24.12	22.50	1.54
0.0	W	7	-0.56	1.03	-2.33	-1.20	0.48	0.88	-0.96	1.93	24.12	22.52	0.81
0.0	X	7	-0.66	1.16	-2.49	-1.18	0.08	0.89	-1.38	1.54	24.30	22.44	2.23
0.0	Y	7	-0.66	1.17	-2.57	-1.24	0.09	0.83	-1.28	1.46	23.50	22.23	2.67
0.0	Z	7	-0.81	1.07	-2.57	-0.95	1.48	1.48	-1.68	1.42	23.39	21.10	2.61

LANDMARK - SUPRASENTRAL E (3)

TIME	SAMPLE SIZE, N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN SE	5 PCT 5 PCT	95 PCT 95 PCT	MEAN SE	5 PCT 5 PCT	95 PCT 95 PCT	MEAN SE	5 PCT 5 PCT	95 PCT 95 PCT	MEAN SE	5 PCT 5 PCT	95 PCT 95 PCT	MEAN SE	5 PCT 5 PCT	95 PCT 95 PCT	
0.0	7	1.49	1.81	5.73	-0.24	1.11	-2.06	1.58	22.35	1.18	20.41	20.42	24.29	0.0	0.0	0.0	
0.10	7	3.77	3.47	1.12	1.63	5.30	0.06	0.99	-1.58	1.69	22.25	1.12	20.42	24.08	0.43	0.43	0.43
F 0.20	7	3.57	1.23	1.20	1.54	5.59	0.40	0.94	-1.35	1.75	22.25	1.15	20.36	24.14	0.18	0.61	0.61
D 0.30	7	3.56	1.20	1.59	5.53	0.30	0.90	-1.17	1.77	22.37	1.02	20.69	24.05	0.16	0.77	0.77	
R 0.40	7	3.36	1.25	1.31	5.41	0.48	0.86	-0.92	1.88	22.44	1.01	20.74	24.06	0.27	1.04	1.04	
M 0.50	7	3.36	1.32	1.19	5.53	0.66	0.95	-0.89	2.22	22.43	1.04	20.73	24.13	0.19	1.23	1.23	
A 0.60	7	3.45	1.25	1.41	5.72	0.50	0.89	-0.73	2.18	22.35	1.18	20.61	24.59	0.17	1.39	1.39	
R 0.70	7	3.50	1.33	1.32	5.68	1.07	0.80	-0.25	2.39	22.84	1.05	21.13	24.56	0.46	1.85	1.85	
D 0.80	7	3.55	1.37	1.31	5.79	1.40	0.97	-0.19	2.98	22.87	1.32	20.70	25.03	0.33	2.18	2.18	
N 0.90	7	3.75	1.14	1.92	5.66	1.63	1.12	-0.21	3.47	23.15	1.29	21.04	25.27	0.44	2.63	2.63	
I. 00	7	3.90	1.11	2.08	5.72	1.79	1.22	-0.20	3.79	23.14	1.25	21.05	25.16	0.20	2.82	2.82	
O. 0	7	0.0	0.0	2.08	5.72	1.79	1.22	-0.20	3.79	23.14	1.25	21.05	25.16	0.0	0.0	0.0	
O. 10	7	3.89	0.86	2.47	5.31	1.47	1.03	-0.22	3.16	23.13	1.18	21.19	25.07	0.32	0.32	0.32	
O. 20	7	3.95	0.96	2.37	5.53	1.53	0.90	-0.06	3.00	23.12	1.19	21.11	24.99	0.11	0.44	0.44	
R 0.30	7	3.13	1.02	2.26	5.60	1.26	0.91	-0.24	2.74	22.85	1.18	20.92	24.78	0.34	0.78	0.78	
E 0.40	7	3.93	1.07	2.16	5.69	1.04	0.59	-0.59	2.65	22.72	1.09	20.96	24.54	1.02	2.25	2.25	
T 0.50	7	3.78	1.12	1.95	5.61	0.90	1.11	-0.94	2.72	22.70	0.88	21.32	24.21	0.20	1.22	1.22	
U 0.60	7	3.85	0.97	2.25	5.44	0.77	1.26	-1.30	2.84	22.74	0.98	21.09	24.31	1.16	1.38	1.38	
R 0.70	7	3.85	1.11	2.04	5.68	0.44	1.14	-1.43	2.31	22.56	1.04	20.95	24.37	0.34	1.72	1.72	
N 0.80	7	3.74	1.09	1.95	5.53	0.44	0.99	-1.26	1.65	22.54	1.09	20.76	24.33	0.44	2.15	2.15	
O. 90	7	3.85	1.11	2.02	5.67	0.05	0.88	-1.49	1.38	22.44	1.19	20.46	24.37	0.19	2.34	2.34	
I. 00	7	3.77	1.19	2.04	5.73	1.11	-2.06	1.11	1.58	22.35	1.18	20.41	24.29	0.22	2.56	2.56	

LANDMARK - RT ACRUMION (4)

TIME	SAMPLE SIZE, N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)				
		MEAN SE	5 PCT 5 PCT	95 PCT 95 PCT	MEAN SE	5 PCT 5 PCT	95 PCT 95 PCT	MEAN SE	5 PCT 5 PCT	95 PCT 95 PCT	MEAN SE	5 PCT 5 PCT	95 PCT 95 PCT	MEAN SE	5 PCT 5 PCT	95 PCT 95 PCT
0.0	7	4.55	1.00	3.19	-7.90	0.97	-9.49	-6.31	22.40	1.38	20.13	24.66	0.0	0.0	0.0	0.0
0.10	7	0.00	0.96	-0.92	-7.60	1.02	-9.27	-5.93	22.54	1.61	19.89	25.18	0.95	0.95	0.95	0.95
F 0.20	7	0.86	0.97	-0.72	2.45	7.47	0.99	-9.09	-5.85	22.59	1.70	19.88	25.44	0.27	1.23	1.23
O. 30	7	1.04	0.94	-0.44	2.51	7.22	0.87	-8.65	-5.78	22.70	1.73	20.05	25.74	0.38	1.61	1.61
R 0.40	7	1.08	0.91	-0.42	2.58	7.09	0.84	-8.48	-5.71	23.23	1.70	20.42	25.98	0.33	1.94	1.94
M 0.50	7	1.39	1.02	-0.29	3.06	-6.78	0.84	-8.16	-5.39	23.52	1.65	20.85	26.25	0.56	2.51	2.51
A 0.60	7	1.87	1.12	3.63	-6.34	0.84	-7.71	-4.97	23.97	1.52	21.48	26.46	0.78	3.28	3.28	
R 0.70	7	2.35	1.03	0.65	-5.93	0.73	-7.13	-4.73	24.38	1.30	22.25	26.51	0.74	4.03	4.03	
D 0.80	7	2.81	0.93	1.29	4.33	-5.64	0.66	-6.74	-4.55	24.72	1.16	22.82	26.62	0.65	4.08	4.08
O. 90	5	4.45	2.75	-0.05	6.97	-3.74	-9.84	2.35	24.74	0.82	23.37	26.06	2.51	7.13	7.13	
I. 00	5	3.15	0.74	1.95	-4.92	0.92	-6.42	-3.42	24.56	0.87	23.22	26.09	1.76	8.95	8.95	
O. 0	5	0.0	0.15	0.74	4.36	-4.92	0.92	-6.42	-3.42	24.56	0.87	23.22	26.09	0.0	0.0	0.0
O. 10	6	2.63	0.58	1.68	3.57	-5.11	1.28	-7.20	-3.02	24.55	0.93	23.48	26.43	0.63	3.63	3.63
O. 20	7	2.48	0.66	1.00	3.57	-5.51	1.31	-7.66	-3.36	24.50	0.86	23.25	26.06	0.22	1.15	1.15
R 0.30	7	2.19	0.72	1.01	3.38	-5.99	1.31	-8.15	-3.83	24.55	0.84	22.87	25.62	0.69	1.85	1.85
E 0.40	7	1.90	0.71	0.74	3.07	-6.40	1.17	-8.31	-4.43	23.89	0.85	22.50	25.29	0.61	2.46	2.46
T 0.50	7	1.66	0.89	0.22	3.15	-6.72	1.09	-8.50	-4.94	23.55	0.97	21.95	25.14	0.52	2.93	2.93
U 0.60	7	1.04	0.99	0.16	3.11	-7.15	1.18	-9.09	-5.22	23.23	1.02	21.55	24.90	0.54	3.52	3.52
R 0.70	7	1.72	0.95	0.16	3.27	-7.41	0.98	-9.02	-5.80	22.95	1.14	21.08	24.82	0.39	3.44	3.44
N 0.80	7	1.69	0.95	0.13	3.25	-7.69	0.93	-9.22	-6.16	22.71	1.29	20.59	24.83	0.37	4.28	4.28
O. 90	7	1.64	0.92	0.12	3.15	-7.81	0.92	-9.32	-6.30	22.23	1.34	20.33	24.73	0.22	4.50	4.50
I. 00	7	1.55	0.74	0.36	-4.92	0.92	-6.42	-3.42	24.49	-6.31	20.13	24.66	0.18	4.66	4.66	

LANDMARK - RT GRIP CENTER (16)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		T MEAN	S SE	N 5 PCT	95 PCT	MEAN	S SE	N 5 PCT	95 PCT	MEAN	S SE	N 5 PCT	95 PCT	MEAN	S SE	N 5 PCT	95 PCT
0.0	6	18.76	0.61	17.96	19.76	-2.04	0.29	-2.52	-1.57	12.48	0.36	11.89	13.07	0.0	0.0	0.0	0.0
0.10	7	18.09	1.00	16.46	19.73	-2.35	1.21	-4.34	-0.37	13.52	3.38	19.17	19.17	1.36	1.36	1.36	1.36
F 0.20	7	17.96	1.28	15.86	20.05	-2.49	1.83	-5.46	0.51	14.54	4.08	7.85	21.23	0.94	2.30	2.30	2.30
R 0.30	7	17.98	1.63	15.30	21.35	-2.35	2.61	-7.63	1.93	16.02	4.30	8.97	23.07	1.48	3.78	3.78	3.78
R 0.40	7	18.13	1.96	14.92	21.35	-1.79	3.48	-7.51	3.92	18.38	1.29	11.34	24.41	2.42	6.21	6.21	6.21
W 0.50	7	18.60	2.10	15.15	22.04	0.25	3.63	-5.70	6.20	21.36	3.12	6.23	26.48	3.65	9.85	9.85	9.85
A 0.60	7	19.35	1.96	16.14	22.56	3.41	3.05	-1.60	8.41	23.77	1.84	20.75	26.78	4.04	13.90	13.90	13.90
R 0.70	6	20.37	1.65	17.36	22.79	5.96	1.75	3.03	8.83	25.02	1.42	22.68	27.36	2.93	16.83	16.83	16.83
D 0.80	5	21.13	1.60	18.50	23.76	8.04	0.95	6.49	9.59	25.24	1.13	23.36	27.05	2.34	19.17	19.17	19.17
O 0.90	5	22.45	0.88	21.01	23.89	9.42	0.65	8.35	10.50	24.72	0.96	23.15	26.29	1.98	21.14	21.14	21.14
1.00	4	23.31	0.48	22.52	24.11	9.68	0.81	8.36	11.01	23.84	0.68	22.70	24.92	1.29	22.43	22.43	22.43
0.0	4	23.31	0.48	22.52	24.11	9.68	0.81	8.36	11.01	23.84	0.68	22.70	24.92	0.0	0.0	0.0	0.0
0.20	5	20.50	1.76	17.61	23.39	3.60	1.10	5.21	8.81	24.47	1.52	21.98	26.96	3.28	3.28	3.28	3.28
R 0.30	7	20.44	2.13	16.95	23.94	1.27	2.49	6.64	6.57	23.42	1.05	21.70	25.14	3.71	7.04	7.04	7.04
E 0.40	7	19.92	2.19	16.33	23.50	-1.81	0.91	-3.30	-0.31	18.36	1.86	18.31	24.41	3.11	14.10	14.10	14.10
T 0.50	7	19.65	1.65	16.95	22.35	-2.07	0.89	-3.54	-0.61	16.05	3.58	10.19	21.92	2.23	16.74	16.74	16.74
U 0.60	7	19.30	1.15	17.42	21.18	-2.62	0.89	-4.08	-1.17	14.24	2.34	10.41	18.08	1.93	18.67	18.67	18.67
R 0.70	7	18.99	0.79	17.69	20.29	-2.35	0.65	-3.74	-0.95	13.04	0.89	11.58	14.50	1.27	19.94	19.94	19.94
N 0.80	7	18.81	0.72	17.63	19.99	-2.20	0.50	-3.02	-1.38	12.31	0.57	11.37	13.25	0.77	20.71	20.71	20.71
O 0.90	6	18.82	0.77	17.55	20.09	-2.28	0.32	-2.60	-1.56	12.54	0.34	12.03	13.06	0.27	20.97	20.97	20.97
1.00	6	18.76	0.61	17.76	19.76	-2.04	0.29	-2.52	-1.57	12.48	0.36	11.89	13.07	0.09	21.07	21.07	21.07

LANDMARK - RT TROCHANTER (18)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		T MEAN	S SE	N 5 PCT	95 PCT	MEAN	S SE	N 5 PCT	95 PCT	MEAN	S SE	N 5 PCT	95 PCT	MEAN	S SE	N 5 PCT	95 PCT
0.0	7	3.74	0.57	2.81	4.68	-7.62	0.71	-8.79	-6.45	3.72	0.50	2.90	4.53	0.0	0.0	0.0	0.0
O.10	7	3.77	0.59	2.81	4.73	-7.49	0.83	-8.85	-6.13	3.77	0.58	2.85	4.74	0.16	0.16	0.16	0.16
F 0.20	7	3.84	0.64	2.79	4.90	-7.60	0.71	-8.76	-6.44	3.77	0.56	2.85	4.68	0.14	0.14	0.14	0.14
O 0.30	7	3.84	0.55	2.94	4.74	-7.40	0.86	-8.80	-5.99	3.82	0.59	2.85	4.78	0.21	0.50	0.50	0.50
O 0.40	7	3.61	0.47	3.83	4.38	-7.41	0.81	-7.73	-6.09	3.81	0.64	2.76	4.85	0.23	0.74	0.74	0.74
W 0.50	7	3.25	0.47	2.79	4.34	-7.48	0.74	-8.69	-6.26	3.84	0.59	2.84	4.78	0.09	0.82	0.82	0.82
A 0.60	7	3.69	0.49	2.88	4.50	-7.45	0.67	-8.54	-6.35	3.82	0.57	2.89	4.76	0.14	0.96	0.96	0.96
R 0.70	7	3.75	0.52	2.91	4.60	-7.52	0.71	-8.67	-6.36	3.83	0.52	2.97	4.69	0.10	1.06	1.06	1.06
D 0.80	7	3.75	0.54	2.85	4.64	-7.58	0.66	-8.66	-6.51	3.78	0.64	2.73	4.83	0.08	1.14	1.14	1.14
O 0.90	7	3.79	0.56	2.88	4.71	-7.52	0.83	-8.88	-6.16	3.78	0.62	2.77	4.80	0.07	1.21	1.21	1.21
1.00	7	3.90	0.50	3.08	4.73	-7.54	0.73	-8.74	-6.34	3.89	0.54	2.80	4.59	0.15	1.36	1.36	1.36
0.0	7	3.90	0.50	3.08	4.73	-7.54	0.73	-8.74	-6.34	3.89	0.54	2.80	4.59	0.0	0.0	0.0	0.0
O.10	7	3.90	0.56	2.98	4.82	-7.50	0.98	-9.10	-5.89	3.85	0.54	2.97	4.73	0.16	0.16	0.16	0.16
O.20	7	4.00	0.59	3.04	4.97	-7.52	1.01	-9.18	-5.87	3.84	0.52	2.98	4.67	0.11	0.27	0.27	0.27
O.30	7	3.82	0.65	2.76	4.89	-7.65	0.92	-9.15	-6.14	3.79	0.57	2.85	4.73	0.22	0.49	0.49	0.49
O.40	7	3.73	0.43	3.03	4.44	-7.73	0.77	-8.99	-6.47	3.81	0.54	2.92	4.70	0.12	0.61	0.61	0.61
T 0.50	7	3.69	0.48	2.90	4.47	-7.69	0.79	-8.98	-6.43	3.74	0.54	2.85	4.63	0.09	0.70	0.70	0.70
U 0.60	7	3.65	0.56	2.72	4.57	-7.65	0.88	-9.10	-6.20	3.73	0.57	2.79	4.67	0.06	0.76	0.76	0.76
R 0.70	7	3.74	0.48	2.95	4.54	-7.71	0.79	-9.00	-6.41	3.74	0.61	2.74	4.73	0.11	0.87	0.87	0.87
N 0.80	7	3.76	0.53	2.89	4.62	-7.74	0.73	-8.93	-6.54	3.75	0.64	2.75	4.76	0.04	0.91	0.91	0.91
O 0.90	7	3.73	0.50	2.91	4.56	-7.70	0.75	-8.92	-6.47	3.74	0.58	2.76	4.66	0.07	0.97	0.97	0.97
1.00	7	3.74	0.57	2.81	4.68	-7.62	0.71	-8.79	-6.45	3.72	0.50	2.90	4.53	0.07	1.05	1.05	1.05

LANDMARK - RT KNEE TOP (20)

TIME T	SAMPLE SIZE, N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	19.25	1.02	1.05	1.05	1.05	-6.41	0.81	-7.74	-5.03	11.44	1.07	9.66	13.16	0.0	0.0	0.0	0.0
R 0.10	18.98	1.25	1.25	1.25	1.25	-6.29	0.72	-7.67	-5.10	11.54	0.92	9.99	13.02	0.31	0.31	0.31	0.31
F 0.20	19.28	1.03	1.03	1.03	1.03	-6.65	1.17	-8.58	-4.73	11.49	0.94	9.94	13.04	0.48	0.48	0.48	0.48
R 0.30	19.35	1.14	1.14	1.14	1.14	-6.23	1.25	-8.60	-4.50	11.49	1.02	9.82	13.16	0.13	0.13	0.13	0.13
R 0.40	19.42	1.12	1.12	1.12	1.12	-6.56	1.25	-8.61	-4.52	11.45	1.04	9.84	13.06	0.13	0.13	0.13	0.13
M 0.50	19.15	1.09	1.09	1.09	1.09	-6.63	1.20	-8.59	-4.67	11.46	0.94	9.97	12.76	0.11	0.11	0.11	0.11
A 0.60	19.18	1.05	1.05	1.05	1.05	-6.68	1.22	-8.68	-4.68	11.46	0.90	9.99	12.94	0.05	0.05	0.05	0.05
R 0.70	19.47	1.05	1.05	1.05	1.05	-6.69	1.23	-8.70	-4.69	11.43	0.97	9.84	13.02	0.04	0.04	0.04	0.04
D 0.80	19.23	1.06	1.06	1.06	1.06	-6.97	1.21	-8.75	-4.79	11.41	1.07	9.63	13.19	0.09	0.09	0.09	0.09
O 0.90	19.79	1.09	1.09	1.09	1.09	-6.72	1.24	-8.76	-4.68	11.42	1.07	9.68	13.17	0.10	0.10	0.10	0.10
I 1.00	19.30	1.00	1.00	1.00	1.00	-6.57	1.35	-8.79	-4.35	11.44	0.95	9.79	12.90	0.17	0.17	0.17	0.17
0.0	19.30	1.06	1.06	1.06	1.06	-6.57	1.35	-8.79	-4.35	11.34	0.95	9.79	12.90	0.0	0.0	0.0	0.0
R 0.20	19.48	0.99	0.99	0.99	0.99	-6.38	1.26	-8.64	-4.51	11.50	1.07	9.74	13.26	0.16	0.16	0.16	0.16
R 0.30	19.39	1.07	1.07	1.07	1.07	-6.52	1.25	-8.57	-4.47	11.51	1.04	9.80	13.21	0.15	0.15	0.15	0.15
T 0.40	19.25	1.07	1.07	1.07	1.07	-6.84	1.14	-8.47	-4.74	11.49	1.05	9.77	13.21	0.12	0.12	0.12	0.12
T 0.50	19.18	1.06	1.06	1.06	1.06	-6.82	1.12	-8.68	-5.00	11.51	1.06	9.77	13.24	0.07	0.07	0.07	0.07
U 0.60	19.18	0.99	0.99	0.99	0.99	-6.93	1.18	-8.77	-4.86	11.53	1.07	9.77	13.28	0.07	0.07	0.07	0.07
R 0.70	19.20	1.05	1.05	1.05	1.05	-6.83	1.21	-8.80	-4.85	11.52	1.04	9.80	13.30	0.03	0.03	0.03	0.03
N 0.80	19.22	1.03	1.03	1.03	1.03	-6.81	1.18	-8.74	-4.83	11.48	1.05	9.75	13.21	0.03	0.03	0.03	0.03
O 0.90	19.29	1.13	1.13	1.13	1.13	-6.37	1.09	-7.84	-4.96	11.47	1.05	9.75	13.19	0.05	0.05	0.05	0.05
I 1.00	19.25	1.05	1.05	1.05	1.05	-6.41	0.81	-7.74	-5.08	11.44	1.07	9.66	13.16	0.06	0.06	0.06	0.06

LANDMARK - RT SHOULDER CENTER (22)

TIME T	SAMPLE SIZE, N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE				
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT
0.0	2.19	1.13	0.33	4.04	-7.13	0.50	-7.95	-6.30	20.44	1.29	16.30	22.51	0.0	0.0	0.0	0.0
R 0.10	2.01	1.94	0.29	3.59	-7.35	0.65	-8.75	-5.95	20.47	1.37	17.92	22.42	0.41	0.41	0.41	0.41
F 0.20	2.06	1.33	0.21	4.23	-7.19	0.79	-8.49	-5.89	20.34	1.55	17.77	22.84	0.24	0.24	0.24	0.24
O 0.30	2.42	1.30	0.29	4.56	-6.90	0.72	-8.07	-5.72	20.54	1.67	17.77	23.25	0.51	0.51	0.51	0.51
E 0.40	2.70	0.53	4.86	-6.16	0.80	-8.18	-5.55	20.84	1.70	18.05	23.62	0.43	0.43	0.43	0.43	
M 0.50	3.07	1.53	0.56	5.58	-6.67	1.02	-8.34	-5.00	21.30	1.76	18.61	24.20	0.63	0.63	0.63	0.63
A 0.60	3.75	1.17	6.32	-6.26	1.07	-8.01	-4.50	21.92	1.58	19.32	24.52	1.01	1.01	1.01	1.01	
R 0.70	4.35	1.33	2.16	6.54	-5.88	0.89	-7.35	-4.42	22.46	1.55	20.41	24.51	0.89	0.89	0.89	0.89
D 0.80	4.71	1.40	2.41	7.01	-5.66	0.94	-7.21	-4.12	22.92	1.57	21.33	24.52	0.63	0.63	0.63	0.63
O 0.90	4.79	1.53	2.28	7.31	-5.42	0.92	-6.92	-3.91	23.47	0.72	21.99	24.54	0.50	0.50	0.50	0.50
I 1.00	5.07	1.65	2.35	7.78	-5.16	1.04	-6.80	-3.46	23.23	0.76	21.99	24.58	0.38	0.38	0.38	0.38
0.0	5.07	4.63	1.63	7.31	-5.17	1.03	-6.85	-3.48	23.13	0.62	22.11	24.15	0.45	0.45	0.45	0.45
R 0.20	4.19	1.73	1.36	7.02	-5.36	1.09	-7.16	-3.57	22.57	0.74	21.45	23.89	0.67	0.67	0.67	0.67
R 0.30	3.48	1.44	1.12	5.83	-5.87	0.86	-7.27	-4.46	22.13	0.74	20.91	23.35	1.02	1.02	1.02	1.02
E 0.40	2.92	1.08	1.15	4.68	-6.40	0.69	-7.54	-5.27	21.57	0.89	20.21	23.13	0.90	0.90	0.90	0.90
T 0.50	2.86	0.85	1.46	4.25	-6.67	0.69	-7.79	-5.54	21.44	0.94	20.03	22.78	0.38	0.38	0.38	0.38
U 0.60	2.73	0.72	1.61	3.98	-6.82	0.73	-8.02	-5.61	21.30	1.09	19.27	22.85	0.60	0.60	0.60	0.60
R 0.70	2.61	0.79	1.31	3.90	-6.82	0.81	-8.15	-5.43	20.79	1.09	19.00	22.53	0.33	0.33	0.33	0.33
N 0.80	2.02	0.95	1.02	4.29	-7.02	0.79	-8.32	-5.73	20.51	1.17	18.69	22.53	0.27	0.27	0.27	0.27
O 0.90	2.41	1.10	0.62	4.21	-6.89	0.50	-7.71	-6.07	20.54	1.28	18.43	22.65	0.35	0.35	0.35	0.35
I 1.00	2.19	1.13	0.33	4.04	-7.13	0.50	-7.95	-6.30	20.40	1.29	18.30	22.51	0.01	0.01	0.01	0.01

LANDMARK - RT ELBOW CENTER (24)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE		
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT
0.0	7	7.26	0.97	5.63	8.85	0.80	-7.97	-5.34	1.58	13.18
0.10	7	6.92	1.80	3.96	9.88	-7.41	1.04	-9.12	2.45	7.07
F 0.20	7	7.00	2.52	2.86	11.14	-7.51	1.30	-9.64	2.38	15.11
D 0.30	7	7.22	2.64	2.88	11.55	-7.28	1.56	-9.84	2.12	16.28
R 0.40	7	8.08	2.70	3.66	12.50	-7.02	1.63	-9.70	2.04	17.64
N 0.50	7	10.15	2.43	6.16	14.14	-6.13	1.96	-9.34	1.95	17.64
A 0.60	7	12.14	1.35	9.93	14.35	-5.02	1.89	-8.13	1.92	19.42
R 0.70	7	13.80	0.90	12.32	15.27	-3.04	2.09	-6.46	1.93	21.27
D 0.80	7	14.27	0.65	13.21	15.33	-1.81	1.02	-3.49	1.14	21.6
N 0.90	7	14.37	0.70	13.22	15.52	-0.82	0.74	-2.03	0.38	22.16
1.00	7	14.46	0.66	13.38	15.54	-0.04	0.60	-1.03	0.95	22.16
0.0	7	14.46	0.66	13.38	15.54	-0.04	0.60	-1.03	0.95	22.16
0.10	7	14.11	0.71	12.94	15.27	-2.20	1.38	-4.46	0.06	2.44
R 0.20	7	13.22	1.09	11.43	15.01	-4.03	1.62	-6.68	1.36	3.03
E 0.30	7	11.47	2.35	7.62	15.31	-5.61	1.38	-7.86	1.35	5.47
E 0.40	7	9.51	2.39	5.59	13.42	-6.79	0.77	-8.05	1.50	8.87
T U.50	7	8.42	1.66	5.38	10.82	-7.44	0.98	-9.05	1.84	11.92
T U.60	7	7.82	1.01	6.16	9.48	-7.31	0.73	-8.50	1.23	17.47
R U.70	7	7.42	0.75	6.19	8.65	-7.08	0.77	-8.33	1.12	20.09
N U.80	7	7.28	0.86	5.88	8.69	-6.92	0.70	-8.07	1.04	20.21
O.90	7	7.35	0.85	5.95	8.74	-6.69	0.78	-7.98	1.04	21.47
1.00	7	7.26	0.97	5.68	8.85	-6.66	0.80	-7.97	1.04	21.47

LANDMARK - RT WRIST CENTER (26)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE		
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT
0.0	6	15.74	0.48	14.96	16.53	-2.73	0.77	-4.00	-1.46	10.97
0.10	7	15.21	1.19	13.26	17.16	-2.99	1.06	-4.73	-1.20	12.76
F 0.20	7	15.07	1.56	12.50	17.63	-3.19	1.54	-5.71	-0.67	12.39
U 0.30	7	15.19	1.86	12.14	18.24	-2.98	2.19	-6.57	0.62	13.56
R 0.40	7	15.45	2.13	11.86	19.05	-2.41	2.94	-7.24	1.01	15.01
N 0.50	7	16.35	2.43	12.36	20.36	-0.75	3.14	-5.91	4.41	16.99
A 0.60	6	17.03	1.75	14.15	19.90	1.77	3.05	-3.23	6.77	21.59
K 0.70	5	18.04	1.55	15.46	20.55	3.79	1.88	0.70	6.88	22.92
D 0.80	5	19.25	1.26	17.18	21.31	5.76	0.82	4.41	7.11	23.54
G 0.90	5	20.10	1.24	18.36	22.13	6.73	0.27	6.28	7.18	23.54
1.00	5	20.76	0.90	19.28	22.24	7.21	0.51	6.37	8.04	23.08
0.0	5	20.76	0.90	19.28	22.24	7.21	0.51	6.37	8.04	23.08
0.10	5	19.74	1.03	18.05	21.43	5.24	1.36	3.01	7.47	23.24
R 0.20	5	18.34	1.56	15.77	20.90	2.38	2.24	-1.29	6.04	21.56
R 0.30	6	17.66	2.06	14.28	21.04	-0.03	2.58	-4.26	4.20	19.58
E 0.40	6	17.04	2.20	13.43	20.65	-2.21	1.90	-5.32	0.91	17.40
T 0.50	7	16.74	1.60	14.11	19.37	3.40	0.81	-4.72	-2.07	15.13
U 0.60	7	16.36	1.07	14.61	18.11	-3.76	0.95	-5.31	-2.21	13.54
R 0.70	6	16.15	0.77	14.89	17.40	-3.63	1.22	-5.60	-1.67	12.67
N 0.80	6	15.97	0.70	14.81	17.12	-3.19	1.08	-4.97	-1.41	11.17
O.90	6	15.94	0.53	15.07	16.84	-2.81	0.52	-4.32	-1.29	11.90
1.00	6	15.74	0.46	14.96	16.53	-2.73	0.77	-4.00	-1.46	10.97

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +15.0, -13.0, +4.8 TO PANEL CONTROLLER AT +24.7, +10.0, +23.0 AND RETURNS. LEFT HAND REMAINS AT THROTTLE CONTROLLER AT +20.0, +10.0, +12.4.

MOTION NUMBER - 12140
BACK ANGLE - 13

SUB-MOVEMENT

TIME DATA			
	MEAN	STD DEV	RANGE
RGHT FWD	0.71	0.04	0.70 TO 0.80 SECS.
RGHT REV	0.93	0.15	0.70 TO 1.10 SECS.

LANDMARK - NASION

(1)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE, N	7	7.48	1.51	5.03	9.97	-3.43	1.00	-5.08	-1.79	28.38	1.38	26.11	30.65	0.0	0.0	0.0	0.0
0.0		7	6.66	4.43	4.43	8.89	0.21	1.17	-1.71	2.13	29.37	1.27	27.78	31.96	4.02	4.02	4.02	4.02
0.10		7	6.56	1.43	4.21	8.91	1.64	1.62	-1.02	4.31	30.47	1.25	28.41	32.52	1.56	1.56	1.56	1.56
F		7	6.72	1.54	4.19	9.24	1.80	1.86	-1.26	4.85	30.54	1.25	28.49	32.59	0.23	0.23	0.23	0.23
O		7	6.33	1.37	4.09	8.57	2.18	1.78	-0.73	5.10	30.54	1.18	28.60	32.49	0.55	0.55	0.55	0.55
R		7	6.28	1.22	4.08	8.08	2.66	1.83	-0.34	5.65	30.57	1.17	28.66	32.49	0.54	0.54	0.54	0.54
W		7	5.98	1.23	3.96	8.00	2.99	1.73	0.15	5.84	30.67	1.19	28.71	32.63	0.36	0.36	0.36	0.36
A		7	5.92	1.27	3.83	8.01	2.27	1.79	0.34	6.20	30.56	1.22	28.66	32.66	0.28	0.28	0.28	0.28
R		7	6.05	1.29	3.93	8.16	3.44	1.90	0.33	6.55	30.53	1.30	28.51	32.76	0.22	0.22	0.22	0.22
D		7	6.18	1.28	4.09	8.28	3.52	1.91	0.39	6.65	30.58	1.32	28.40	32.75	0.17	0.17	0.17	0.17
O		7	6.09	1.15	4.31	8.09	3.48	1.78	0.57	6.43	30.47	1.29	28.36	32.58	0.11	0.11	0.11	0.11
N		7	6.20	1.15	4.31	8.09	3.48	1.78	0.57	6.40	30.47	1.29	28.36	32.58	0.0	0.0	0.0	0.0
W		7	6.20	1.15	4.31	8.09	3.48	1.78	0.57	6.40	30.47	1.29	28.36	32.58	0.0	0.0	0.0	0.0
A		7	6.04	1.57	3.47	8.61	1.83	2.10	-1.61	5.27	29.38	1.28	27.79	31.97	1.76	1.76	1.76	1.76
R		7	6.48	2.75	2.75	10.70	1.91	-2.44	3.83	29.39	1.35	27.18	31.61	1.31	3.07	3.07	3.07	
O		7	6.58	2.35	2.72	10.44	0.03	1.97	-3.20	3.27	29.19	1.19	26.91	31.48	0.70	3.77	3.77	3.77
E		7	6.80	2.05	3.44	10.16	-0.60	1.46	-2.99	1.79	29.04	1.43	26.67	31.35	0.69	4.47	4.47	4.47
T		7	7.14	4.17	10.11	-1.44	1.02	-3.12	3.23	28.79	1.38	26.52	31.06	0.94	5.40	5.40	5.40	
T		7	7.26	1.72	4.43	10.09	-2.07	0.94	-3.61	-0.53	28.63	1.42	26.35	31.01	0.65	6.05	6.05	6.05
U		7	7.27	1.76	4.38	10.16	-2.52	0.95	-4.10	-0.53	28.53	1.45	26.25	31.00	0.46	6.51	6.51	6.51
R		7	7.27	1.69	4.62	10.16	-3.06	0.87	-4.48	-1.63	28.59	1.41	26.28	30.90	0.55	7.05	7.05	7.05
N		7	7.39	1.48	4.45	9.91	-3.38	0.90	-4.86	-1.89	28.42	1.40	26.12	30.71	0.38	7.43	7.43	7.43
O		7	7.48	1.51	5.00	9.97	-3.43	1.00	-5.08	-1.79	28.38	1.38	26.11	30.65	0.07	7.50	7.50	7.50
W		7	7.48	1.51	5.00	9.97	-3.43	1.00	-5.08	-1.79	28.38	1.38	26.11	30.65	0.07	7.50	7.50	7.50

LANDMARK - CERVICALE

(2)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE, N	7	0.32	1.58	-2.91	2.27	-0.14	0.70	-1.29	1.00	23.76	1.33	21.58	25.94	0.0	0.0	0.0	0.0
0.0		7	0.92	1.47	-3.33	1.49	0.37	0.44	-0.34	1.03	23.82	1.20	21.55	25.79	0.79	0.79	0.79	0.79
F		7	1.14	1.67	-3.67	1.38	0.75	0.58	-0.20	1.71	23.92	1.14	22.04	25.79	1.24	1.24	1.24	1.24
O		7	1.11	1.63	-3.78	1.57	0.99	0.63	-0.04	2.02	24.03	1.13	22.17	25.89	0.27	0.27	0.27	0.27
R		7	0.98	1.47	-3.40	1.44	0.93	0.57	-0.66	2.52	24.00	1.09	22.22	25.79	0.15	1.66	1.66	1.66
W		7	0.81	1.47	-3.23	1.60	0.86	0.21	-2.63	2.63	24.05	1.05	22.34	25.80	0.33	2.00	2.00	2.00
A		7	0.70	1.46	-3.09	1.69	0.70	0.36	-2.66	2.66	24.15	1.02	22.48	25.82	0.33	2.33	2.33	2.33
R		7	0.57	1.41	-2.88	1.73	1.63	0.74	0.41	2.84	24.33	1.07	22.58	26.08	0.25	2.58	2.58	2.58
D		7	0.41	1.51	-2.89	2.06	1.74	1.02	0.07	3.42	24.43	1.18	22.49	26.37	0.21	2.79	2.79	2.79
O		7	0.28	1.63	-2.95	1.80	1.22	-0.20	3.80	24.40	1.22	22.45	26.47	0.16	2.95	2.95	2.95	
W		7	0.27	1.44	-2.63	2.08	1.70	1.04	-0.01	3.40	24.53	1.23	22.51	26.55	0.12	3.03	3.03	3.03
O		7	0.27	1.44	-2.63	2.08	1.70	1.04	-0.01	3.40	24.53	1.23	22.51	26.55	0.0	0.0	0.0	0.0
R		7	0.36	1.24	-2.40	1.68	1.95	0.88	0.51	3.39	24.45	1.27	22.37	26.53	0.28	0.28	0.28	0.28
O		7	0.45	1.33	-2.64	1.74	1.81	0.86	0.40	3.22	24.29	1.27	22.21	26.36	0.23	0.51	0.51	0.51
R		7	0.49	1.36	-2.72	1.74	1.73	0.72	0.56	2.91	24.13	1.20	22.16	26.10	0.18	2.69	2.69	2.69
E		7	0.65	1.48	-3.08	1.77	1.69	0.74	0.47	2.91	24.03	1.17	22.11	25.96	0.19	0.87	0.87	0.87
T		7	0.68	1.30	-2.81	1.46	1.31	0.60	0.32	2.30	24.14	1.11	22.28	25.94	0.39	1.28	1.28	1.28
U		7	0.60	1.41	-2.91	1.70	0.84	0.80	-0.47	2.15	24.07	1.22	22.00	25.98	0.47	1.75	1.75	1.75
R		7	0.61	1.38	-2.88	1.65	0.51	0.95	-1.04	2.06	23.99	1.14	22.02	25.99	0.34	2.09	2.09	2.09
N		7	0.41	1.38	-2.66	1.85	0.09	0.59	-0.88	1.06	23.93	1.33	21.74	26.11	0.47	2.57	2.57	2.57
O		7	0.34	1.30	-2.47	1.80	0.05	0.51	-0.09	0.79	23.85	1.37	21.61	26.09	0.17	2.74	2.74	2.74
W		7	0.32	1.58	-2.91	2.27	0.14	-0.14	0.70	2.27	23.76	1.03	21.58	25.94	0.14	2.88	2.88	2.88

LANDMARK - SUPRASTERNAL (3)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE								
		T SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
0.0	F	3.38	1.40	1.08	5.67	-0.08	0.89	-1.53	22.45	1.14	20.59	24.32	0.0	0.0	0.0	0.0	0.0	0.0		
0.10	F	7	3.31	1.01	1.36	4.66	0.41	0.69	1.53	22.74	1.12	20.90	24.57	0.68	0.68	0.68	0.68	0.68	0.68	
0.20	F	7	2.91	1.10	1.11	4.70	0.66	0.92	0.85	21.18	22.87	1.08	24.64	0.30	0.30	0.30	0.30	0.30	0.30	
0.30	F	7	2.93	1.16	1.03	4.83	0.75	1.02	0.92	21.42	22.89	1.03	21.21	24.58	0.09	0.09	0.09	0.09	0.09	0.09
0.40	R	7	3.03	0.90	1.55	4.50	0.70	1.31	1.44	2.84	0.82	0.98	21.22	24.43	0.13	0.13	0.13	0.13	0.13	0.13
0.50	W	7	3.10	0.98	1.48	4.71	0.95	1.27	1.14	3.03	22.69	0.76	21.31	24.46	0.27	0.27	0.27	0.27	0.27	0.27
0.60	A	7	3.09	1.02	1.43	4.76	1.35	1.26	0.71	3.41	22.96	0.76	21.38	24.54	0.41	0.41	0.41	0.41	0.41	0.41
0.70	R	7	3.27	0.85	1.88	4.67	1.49	1.14	0.38	3.35	23.23	1.08	21.43	24.97	0.32	0.32	0.32	0.32	0.32	0.32
0.80	D	7	3.45	1.02	1.77	5.12	1.51	1.27	0.57	3.60	23.39	1.19	21.44	25.34	0.26	0.26	0.26	0.26	0.26	0.26
0.90	N	7	3.63	1.14	1.76	5.49	1.65	1.42	0.68	3.99	23.58	1.28	21.47	25.68	0.29	0.29	0.29	0.29	0.29	0.29
1.00	N	7	3.83	0.98	2.22	5.44	1.73	1.19	0.22	3.67	23.75	1.35	21.53	25.97	0.27	0.27	0.27	0.27	0.27	0.27
0.0	N	7	3.83	0.98	2.22	5.44	1.73	1.19	0.22	3.67	23.75	1.35	21.53	25.97	0.0	0.0	0.0	0.0	0.0	0.0
0.10	N	7	3.29	1.10	1.48	4.88	1.90	1.15	0.00	3.79	23.32	1.31	21.18	25.46	0.71	0.71	0.71	0.71	0.71	0.71
0.20	N	7	3.14	1.37	0.89	5.38	1.98	1.20	0.01	3.94	23.10	1.31	20.95	25.25	0.28	0.28	0.28	0.28	0.28	0.28
0.30	R	7	3.00	1.61	0.37	5.64	1.76	1.06	0.02	3.51	22.94	1.26	20.87	25.01	0.30	0.30	0.30	0.30	0.30	0.30
0.40	E	7	2.76	1.43	0.40	5.11	1.76	1.03	0.07	3.45	22.85	1.34	20.66	25.04	0.26	0.26	0.26	0.26	0.26	0.26
0.50	T	7	2.79	1.46	0.40	5.18	1.30	0.92	-0.21	2.82	22.90	1.18	20.97	24.83	0.46	0.46	0.46	0.46	0.46	0.46
0.60	U	7	2.94	1.50	0.48	5.40	0.88	0.98	-0.72	2.48	22.78	1.20	20.82	24.74	0.46	0.46	0.46	0.46	0.46	0.46
0.70	R	7	3.12	1.57	0.54	5.70	0.62	1.06	-1.11	2.36	22.68	1.18	20.75	24.60	0.33	0.33	0.33	0.33	0.33	0.33
0.80	N	7	3.18	1.38	0.91	5.45	0.33	1.03	-1.37	2.03	22.55	1.18	20.72	24.58	0.30	0.30	0.30	0.30	0.30	0.30
0.90	N	7	3.34	1.48	0.92	5.76	0.09	0.97	-1.51	1.69	22.57	1.21	20.58	24.56	0.30	0.30	0.30	0.30	0.30	0.30
1.00	N	7	3.38	1.40	1.08	5.67	-0.08	0.89	-1.53	1.37	22.45	1.14	20.59	24.32	0.21	0.21	0.21	0.21	0.21	0.21

LANDMARK - RT ACRION (4)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE								
		T SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
0.0	F	0.97	0.64	-0.07	2.02	-8.36	0.32	-8.88	-7.84	21.39	1.26	19.33	23.45	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	F	7	0.29	0.87	-1.14	1.72	-7.20	0.72	-8.39	-6.01	22.71	2.05	23.92	1.21	0.21	0.21	0.21	0.21	0.21	
0.20	D	7	0.34	1.09	-1.45	2.13	-7.00	0.75	-8.24	-5.77	22.71	0.92	21.19	24.22	0.69	0.69	0.69	0.69	0.69	0.69
0.30	R	7	0.67	1.26	-1.41	2.74	-6.98	1.03	-8.67	-5.30	23.06	0.85	21.67	24.46	0.41	0.41	0.41	0.41	0.41	0.41
0.40	W	7	1.23	1.04	-0.48	2.94	-6.70	0.88	-8.15	-5.25	23.37	0.80	22.05	24.69	0.44	0.44	0.44	0.44	0.44	0.44
0.50	A	7	1.87	0.94	0.32	3.42	-6.19	0.87	-7.63	-4.76	24.05	0.81	22.19	25.04	0.68	0.68	0.68	0.68	0.68	0.68
0.60	R	7	2.53	0.73	0.74	3.32	-5.64	0.85	-7.03	-4.25	24.48	0.78	23.19	25.76	0.97	0.97	0.97	0.97	0.97	0.97
0.70	D	7	3.03	0.74	1.82	4.23	-5.15	1.02	-6.83	-3.47	24.85	0.75	23.63	26.07	0.79	0.79	0.79	0.79	0.79	0.79
0.80	N	6	3.09	0.49	2.29	3.89	-5.08	1.02	-6.93	-3.24	24.91	0.88	23.46	26.35	0.11	0.11	0.11	0.11	0.11	0.11
0.90	N	6	3.44	0.59	2.48	4.40	-4.85	1.06	-6.60	-3.11	24.98	0.82	23.64	26.32	0.43	0.43	0.43	0.43	0.43	0.43
1.00	N	7	0.0	6	3.44	0.59	2.48	4.40	-4.85	1.06	-6.60	-3.11	24.98	0.82	23.64	26.32	0.0	0.0	0.0	
0.10	R	7	2.77	0.66	1.69	3.85	-4.92	0.74	-6.12	-3.71	24.76	0.76	23.51	26.01	0.70	0.70	0.70	0.70	0.70	0.70
0.20	R	7	1.92	0.87	0.50	3.35	-5.57	0.82	-6.91	-4.22	24.22	1.01	22.57	25.88	1.50	1.50	1.50	1.50	1.50	1.50
0.30	R	7	1.24	1.23	-0.78	3.26	-6.12	0.97	-7.72	-4.53	23.74	1.13	21.89	25.59	1.01	1.01	1.01	1.01	1.01	1.01
0.40	E	7	0.83	1.21	-1.16	2.81	-6.37	0.82	-7.71	-5.02	23.41	1.02	21.74	25.08	0.53	0.53	0.53	0.53	0.53	0.53
0.50	T	7	0.42	1.23	-1.61	2.49	-6.86	0.68	-7.98	-5.14	23.10	0.99	21.47	24.72	0.71	0.71	0.71	0.71	0.71	0.71
0.60	U	7	0.07	1.10	-1.72	1.87	-7.05	0.88	-8.49	-5.6	22.63	0.93	21.10	24.15	0.61	0.61	0.61	0.61	0.61	0.61
0.70	R	7	0.74	3.13	-5.88	4.41	-6.50	3.14	-11.64	-1.35	21.65	1.71	18.83	24.46	1.38	1.38	1.38	1.38	1.38	1.38
0.80	N	7	0.11	1.53	-2.41	2.63	-7.55	1.46	-9.95	-5.16	21.50	1.11	19.78	23.41	1.35	1.35	1.35	1.35	1.35	1.35
0.90	N	7	0.85	0.59	-0.11	1.82	-8.32	0.33	-8.86	-7.79	21.54	1.28	19.44	23.64	1.07	1.07	1.07	1.07	1.07	1.07
1.00	N	7	0.97	0.64	-0.07	2.02	-8.36	0.32	-8.88	-7.84	21.39	1.26	19.33	23.45	0.20	0.20	0.20	0.20	0.20	0.20

LANDMARK - RT GRIP CENTER (16)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	13.96	0.64	12.92	15.01	-13.58	0.41	-14.25	-12.91	3.88	0.66	2.79	4.97	0.0	0.0	0.0	0.0
0.10	T	13.25	0.87	11.82	14.68	-12.96	1.17	-14.88	-11.05	1.41	5.44	10.07	3.98	3.98	0.0	0.0	0.0
F	0.20	13.60	1.10	11.80	15.40	-10.90	1.58	-13.54	-8.37	11.67	1.47	14.87	4.41	8.44	8.44	0.0	0.0
O	0.30	14.07	1.33	12.49	16.86	-7.90	1.75	-10.78	-5.02	15.56	1.99	12.30	18.82	5.06	1.346	1.346	0.0
R	0.40	15.93	1.91	12.80	19.05	-1.63	1.63	-6.99	-1.63	19.53	1.97	15.80	22.26	5.15	1.861	1.861	0.0
X	0.50	17.32	1.87	14.25	20.40	-0.31	1.63	-3.05	2.33	21.59	1.88	18.60	24.59	4.90	23.51	23.51	0.0
A	0.60	18.65	1.33	16.48	20.83	3.48	1.43	1.13	5.83	23.50	1.43	21.15	25.85	4.50	28.01	28.01	0.0
R	0.70	20.15	0.85	18.76	21.54	6.54	1.10	4.74	8.34	24.55	0.79	23.26	25.84	3.57	31.58	31.58	0.0
D	0.80	21.39	0.87	19.97	22.81	8.22	0.67	7.12	9.31	24.75	0.52	23.90	25.60	2.09	33.67	33.67	0.0
O	0.90	21.98	0.72	20.80	23.15	9.47	0.43	8.77	10.18	24.38	0.30	23.89	24.87	1.44	35.11	35.11	0.0
N	1.00	22.68	1.06	20.94	24.41	10.01	0.24	9.61	10.41	24.18	0.25	23.77	24.59	0.91	36.01	36.01	0.0
0.0		22.68	1.06	20.94	24.41	10.01	0.24	9.61	10.41	24.18	0.25	23.77	24.59	0.91	36.01	36.01	0.0
0.10		21.46	0.90	19.99	22.94	8.59	0.77	7.33	9.84	24.75	0.47	23.97	25.53	1.96	1.96	1.96	0.0
0.20		19.54	2.31	15.75	23.33	4.40	0.87	2.97	5.83	24.25	1.10	22.44	26.06	4.64	6.57	6.57	0.0
R	0.30	17.84	3.00	12.92	22.76	6.29	1.38	-1.97	2.55	22.60	1.24	20.57	24.63	4.74	11.34	11.34	0.0
E	0.40	16.27	3.02	11.32	21.22	-5.03	2.18	-8.61	-1.45	19.45	1.80	16.10	22.00	6.59	17.92	17.92	0.0
T	0.50	14.56	3.18	9.35	19.77	-9.90	3.72	-15.99	-3.81	14.66	4.11	7.92	21.39	6.77	24.70	24.70	0.0
U	0.60	13.27	3.13	8.14	18.40	-13.34	2.99	-18.24	-8.44	10.04	4.62	2.44	17.58	5.92	30.62	30.62	0.0
R	0.70	12.91	1.87	9.84	15.97	-13.99	1.39	-16.27	-11.71	7.97	4.91	2.17	11.23	2.17	32.80	32.80	0.0
N	0.80	13.17	1.17	11.24	15.09	-14.35	0.87	-15.77	-12.93	5.52	1.56	3.05	8.18	2.39	35.19	35.19	0.0
O	0.90	13.79	0.96	12.92	15.36	-13.88	0.35	-14.45	-13.31	4.33	1.11	2.51	6.16	1.50	36.69	36.69	0.0
H	1.00	13.96	0.64	12.92	15.01	-13.58	0.41	-14.25	-12.91	3.88	0.66	2.79	4.97	0.57	37.26	37.26	0.0

LANDMARK - RT TRUCHANTER (18)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	3.80	0.42	3.11	4.50	-7.45	0.89	-8.90	-5.99	3.98	0.53	3.11	4.84	0.0	0.0	0.0	0.0
O	0.10	3.66	0.33	3.11	4.21	-7.51	0.85	-8.90	-6.13	4.03	0.52	3.17	4.89	0.17	0.17	0.17	0.17
F	0.20	3.65	0.45	2.91	4.40	-7.45	0.82	-8.80	-6.11	4.02	0.51	3.18	4.86	0.06	0.23	0.23	0.23
O	0.30	3.68	0.51	2.84	4.51	-7.35	0.81	-8.67	-6.03	4.01	0.49	3.20	4.82	0.10	0.33	0.33	0.33
E	0.40	3.79	0.38	3.16	4.42	-7.55	0.97	-9.14	-5.96	4.01	0.49	3.20	4.81	0.22	0.56	0.56	0.56
H	0.50	3.85	0.53	2.98	4.71	-7.58	0.85	-8.97	-6.19	3.99	0.49	3.18	4.79	0.07	0.63	0.63	0.0
A	0.60	3.73	0.57	2.79	4.66	-7.52	0.76	-8.76	-6.27	3.98	0.49	3.18	4.78	0.14	0.76	0.76	0.0
R	0.70	3.71	0.67	2.62	4.81	-7.44	0.79	-8.73	-6.15	3.97	0.52	3.12	4.83	0.08	0.84	0.84	0.0
D	0.80	3.91	0.70	2.76	5.05	-7.33	0.80	-8.64	-6.03	4.06	0.52	3.21	4.91	0.24	1.08	1.08	0.0
O	0.90	3.98	0.68	2.86	5.10	-7.30	0.85	-8.69	-5.91	4.11	0.52	3.26	4.97	0.10	1.17	1.17	0.0
N	1.00	3.74	0.43	3.04	4.44	-7.45	0.92	-8.97	-5.94	4.14	0.55	3.24	5.04	0.28	1.46	1.46	0.0
0.0		3.74	0.43	3.04	4.44	-7.45	0.92	-8.97	-5.94	4.14	0.55	3.24	5.04	0.28	1.46	1.46	0.0
O	0.10	3.60	0.72	2.43	4.78	-7.40	0.81	-8.73	-6.08	3.54	1.53	1.36	5.78	0.10	0.75	0.75	0.0
R	0.20	3.52	0.60	2.54	4.50	-7.38	0.85	-8.77	-5.93	3.57	1.35	1.01	5.76	0.13	0.88	0.88	0.0
O	0.30	3.55	0.45	2.81	4.28	-7.48	0.81	-8.80	-6.15	3.48	1.51	2.24	5.23	0.25	1.13	1.13	0.0
E	0.40	3.56	0.52	2.70	4.41	-7.48	0.70	-8.63	-6.33	3.73	0.91	2.24	5.24	0.25	1.13	1.13	0.0
T	0.50	3.59	0.42	2.69	4.28	-7.58	0.73	-8.78	-6.38	4.05	0.54	3.17	4.93	0.33	1.46	1.46	0.0
U	0.60	3.67	0.53	2.80	4.54	-7.55	0.82	-8.90	-6.20	4.01	0.56	3.09	4.94	0.09	1.55	1.55	0.0
R	0.70	3.70	0.53	2.84	4.57	-7.49	0.84	-8.86	-6.12	3.98	0.53	3.10	4.85	0.07	1.63	1.63	0.0
N	0.80	3.76	0.43	3.06	4.46	-7.58	0.90	-9.05	-6.11	4.00	0.48	3.21	4.78	0.11	1.73	1.73	0.0
O	0.90	3.74	0.59	2.77	4.77	-7.63	0.70	-8.90	-5.97	3.97	0.57	3.03	4.91	0.06	1.79	1.79	0.0
N	1.00	3.80	0.42	3.11	4.50	-7.45	0.89	-8.90	-5.99	3.98	0.53	3.11	4.84	0.19	1.98	1.98	0.0

MVMT NO. 12140/13

LANDMARK - RT KNEE TOP (20)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)				(- - - Y - CO-ORDINATE - - -)				(- - - Z - CO-ORDINATE - - -)			
		MEAN	SE	95 PCT	5 PCT	MEAN	SE	95 PCT	5 PCT	MEAN	SE	95 PCT	5 PCT
0.0	7	1.928	0.88	17.83	20.73	-6.21	1.32	-8.37	-4.04	11.54	0.75	10.31	12.76
0.10	7	19.23	0.95	17.66	20.79	-6.32	1.38	-8.58	-4.07	11.59	0.84	10.21	12.97
F 0.20	7	19.26	1.08	17.48	21.03	-6.32	1.36	-8.55	-4.09	11.58	0.84	10.20	12.96
O 0.30	7	19.28	1.19	17.33	21.23	-6.24	1.33	-8.42	-4.06	11.58	0.81	10.25	12.90
R 0.40	7	19.34	1.09	17.55	21.12	-6.47	1.52	-8.97	-3.93	11.60	0.91	10.10	13.09
W 0.50	7	19.28	1.15	17.39	21.16	-6.47	1.41	-8.77	-4.16	11.57	0.93	13.04	13.09
A 0.60	7	19.22	1.32	17.06	21.39	-6.34	1.29	-8.46	-4.23	11.57	0.92	10.07	13.08
R 0.70	7	19.18	1.36	16.95	21.42	-6.31	1.39	-8.59	-4.03	11.63	0.90	10.15	13.10
D 0.80	7	19.22	1.32	17.05	21.39	-6.23	1.40	-8.52	-3.93	11.65	0.84	10.28	13.03
O 0.90	7	19.26	1.24	17.23	21.29	-6.20	1.38	-8.47	-3.93	11.65	0.80	10.34	12.96
1.00	7	19.18	1.00	17.54	20.82	-6.35	1.27	-8.44	-4.27	11.60	0.78	10.32	12.88
0.0	7	19.18	1.00	17.54	20.82	-6.35	1.27	-8.44	-4.27	11.60	0.78	10.32	12.88
0.10	7	19.33	1.22	17.32	21.34	-6.25	1.27	-8.33	-4.17	11.53	0.79	10.28	12.88
0.20	7	19.17	1.16	17.27	21.07	-6.32	1.25	-8.37	-4.27	11.57	0.88	10.13	13.01
R 0.30	7	19.16	1.16	17.25	21.06	-6.30	1.25	-8.34	-4.25	11.57	0.90	10.10	13.06
E 0.40	7	19.12	1.27	17.03	21.21	-6.17	1.19	-8.08	-4.16	11.57	0.86	10.16	12.98
T 0.50	7	19.14	1.24	17.10	21.17	-6.17	1.15	-8.07	-4.23	11.54	0.89	10.09	13.00
U 0.60	7	19.18	1.21	17.19	21.17	-6.16	1.23	-8.18	-4.13	11.57	0.85	10.19	12.96
R 0.70	7	19.24	1.25	17.25	21.22	-6.25	1.24	-8.28	-4.22	11.64	0.86	10.23	13.05
N 0.80	7	19.20	1.21	17.31	21.09	-6.30	1.24	-8.34	-4.25	11.65	0.82	10.31	12.99
O 0.90	7	19.38	1.14	17.51	21.24	-6.32	1.26	-8.39	-4.25	11.63	0.78	10.36	12.90
1.00	7	19.28	0.88	17.83	20.73	-6.21	1.32	-8.37	-4.04	11.54	0.75	10.31	12.76

LANDMARK - RT SHOULDER CENTER (22)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)				(- - - Y - CO-ORDINATE - - -)				(- - - Z - CO-ORDINATE - - -)			
		MEAN	SE	95 PCT	5 PCT	MEAN	SE	95 PCT	5 PCT	MEAN	SE	95 PCT	5 PCT
0.0	7	1.67	0.65	0.61	2.73	-7.88	0.28	-8.33	-7.43	19.24	0.97	17.63	20.79
0.10	7	1.22	0.48	2.00	-7.26	0.59	-8.23	-6.30	19.85	1.06	18.10	21.59	0.99
F 0.20	7	1.15	0.65	0.09	2.22	-6.96	0.79	-8.25	-5.66	23.31	1.17	18.39	22.24
O 0.30	7	1.39	0.85	-0.01	2.79	-6.85	0.73	-8.06	-5.65	20.58	1.12	18.84	22.52
R 0.40	7	2.04	1.20	0.07	4.01	-6.83	0.87	-8.26	-5.41	20.98	1.12	19.15	22.91
W 0.50	7	2.71	1.31	0.56	4.87	-6.63	0.80	-7.95	-5.32	21.48	1.05	19.75	23.20
A 0.60	7	3.22	1.15	1.34	5.10	-6.35	0.94	-7.88	-4.81	21.96	0.94	20.43	23.50
R 0.70	7	3.80	1.15	1.91	5.75	1.11	-7.58	-3.93	22.49	0.84	21.11	23.87	0.99
D 0.80	7	4.47	1.31	2.33	6.62	-5.04	1.26	-7.11	-2.97	22.35	0.72	21.78	24.13
O 0.90	7	4.85	1.55	2.31	7.39	-4.83	1.05	-6.55	-3.11	23.37	0.82	21.73	24.41
1.00	7	4.83	1.57	2.25	7.41	-4.75	1.02	-6.42	-3.09	23.11	0.79	21.81	24.41
0.0	7	4.83	1.57	2.25	7.41	-4.75	1.02	-6.42	-3.09	23.11	0.79	21.81	24.41
0.10	7	4.14	1.41	1.82	6.45	-4.89	1.01	-6.26	-3.23	22.34	0.77	21.55	24.05
0.20	7	3.42	1.51	0.94	5.90	-5.74	0.85	-7.12	-4.35	22.17	0.88	20.72	23.62
R 0.30	7	2.65	1.32	0.48	4.82	-6.09	0.77	-7.35	-4.84	21.75	0.96	20.17	23.33
E 0.40	7	2.05	1.25	0.01	4.09	-6.52	0.56	-7.43	-5.60	21.39	0.99	19.78	23.01
T 0.50	7	1.42	1.09	-0.37	3.21	-7.00	0.52	-7.85	-6.15	21.23	0.85	19.63	22.43
U 0.60	7	1.16	0.92	-0.34	2.67	-7.47	0.49	-8.28	-6.67	20.50	0.81	19.24	21.89
R 0.70	7	1.06	0.73	-0.13	2.25	-7.54	0.34	-8.09	-6.98	20.24	0.78	18.95	21.52
N 0.80	7	1.31	0.56	0.40	2.23	-7.89	0.46	-8.66	-7.13	19.73	0.95	18.14	21.26
O 0.90	7	1.65	0.56	0.73	2.57	-8.04	0.49	-8.84	-7.23	19.30	0.94	17.76	20.84
1.00	7	1.67	0.65	0.61	2.73	-7.88	0.28	-8.33	-7.43	19.24	0.97	17.63	20.79

LANDMARK - RT ELBOW CENTER (24)

TIME	SAMPLE T SIZE, N	(- - - - - X - CO-ORDINATE - - - - -)			(- - - - - Y - CO-ORDINATE - - - - -)			(- - - - - Z - CO-ORDINATE - - - - -)		
		MEAN SE	5 PCT SE	95 PCT SE	MEAN SE	5 PCT SE	95 PCT SE	MEAN SE	5 PCT SE	95 PCT SE
0.0	T 7	2.79	1.49	1.01	4.57	-9.96	0.55	-11.51	-8.40	8.72
0.10	F 7	1.73	1.08	-0.04	3.50	-9.52	1.04	-11.23	-7.81	7.53
0.20	F 7	2.36	1.14	0.19	3.94	-9.29	1.17	-11.20	-7.38	1.32
0.30	R 7	3.58	1.43	1.05	5.94	-9.18	1.14	-11.05	-7.30	1.04
0.40	R 7	6.53	1.77	1.63	9.44	-8.76	0.78	-10.04	-7.48	1.49
0.50	W 7	9.43	1.63	6.75	12.11	-7.38	0.78	-9.66	-6.09	12.42
A 0.60	R 7	11.77	1.21	9.78	13.76	-5.44	0.86	-6.85	-4.04	11.32
R 0.70	D 7	13.39	0.85	12.00	14.79	-3.32	0.76	-4.57	-2.07	11.86
D 0.80	D 7	14.22	0.93	12.68	15.75	-1.75	0.70	-2.91	-0.60	11.61
O 0.90	N 6	14.85	0.99	13.22	16.47	-0.78	0.46	-1.54	-0.02	13.62
1.00	N 6	14.90	0.56	13.98	15.82	-0.05	0.32	-0.57	0.47	1.69
0.0	6	14.90	0.56	13.98	15.82	-0.05	0.32	-0.57	0.47	11.03
0.10	6	14.44	0.87	13.01	15.87	-1.85	0.46	-6.37	-1.09	2.04
0.20	7	12.60	1.46	10.21	14.99	-4.73	1.03	-6.37	-3.09	1.62
R 0.30	7	9.64	3.22	4.35	14.92	-7.44	1.90	-10.55	-4.32	14.59
E 0.40	7	6.36	2.36	2.33	11.39	-8.99	1.55	-11.52	-6.45	13.16
T 0.50	7	3.39	2.15	1.75	8.56	-10.43	1.74	-13.29	-7.58	1.81
U 0.60	7	1.62	2.68	-2.78	6.01	-10.70	1.52	-13.20	-8.21	1.97
R 0.70	7	1.20	1.73	-1.72	4.11	-10.55	1.24	-12.57	-8.52	1.03
N 0.80	7	1.79	0.32	-0.39	3.96	-10.54	0.93	-12.06	-9.02	9.54
O 0.90	7	2.49	0.89	1.03	3.95	-10.25	0.72	-11.44	-9.07	9.03
1.00	7	2.79	1.09	1.01	4.57	-9.96	0.95	-11.51	-8.40	8.72

LANDMARK - RT WRIST CENTER (26)

TIME	SAMPLE T SIZE, N	(- - - - - X - CO-ORDINATE - - - - -)			(- - - - - Y - CO-ORDINATE - - - - -)			(- - - - - Z - CO-ORDINATE - - - - -)		
		MEAN SE	5 PCT SE	95 PCT SE	MEAN SE	5 PCT SE	95 PCT SE	MEAN SE	5 PCT SE	95 PCT SE
0.0	W 6	10.66	0.44	9.93	11.38	-12.77	0.53	-13.63	-11.91	4.42
0.10	F 6	10.13	0.83	8.69	11.56	-11.88	0.92	-13.38	-10.37	7.91
0.20	F 6	11.01	1.37	8.77	13.25	-9.54	1.63	-12.21	-6.87	12.09
O 0.30	6	12.58	1.95	9.39	15.78	-6.59	2.86	-11.28	-1.91	15.87
R 0.40	6	14.25	2.59	2.01	18.49	-3.27	4.03	-9.88	3.34	19.26
W 0.50	6	15.32	1.69	12.54	18.54	-1.34	1.48	-3.77	1.77	15.56
A 0.60	6	16.97	1.23	14.95	18.99	-1.74	1.31	-4.41	3.68	19.33
R 0.70	6	18.37	0.84	16.99	19.74	4.38	0.94	-2.84	5.92	21.82
D 0.80	4	19.72	0.97	18.02	21.31	5.79	0.68	-4.68	6.90	23.06
O 0.90	2	20.29	1.02	18.62	21.95	6.95	0.72	-5.77	8.13	23.59
1.00	2	20.91	1.47	18.50	23.32	7.40	0.42	-6.72	8.09	23.10
0.0	2	20.91	1.47	18.50	23.32	7.40	0.42	-6.72	8.09	23.16
0.10	3	19.27	1.01	17.61	20.92	6.20	0.51	-5.36	7.04	23.06
0.20	6	17.74	2.22	14.11	21.38	2.05	0.84	-0.66	3.43	21.73
R 0.30	7	15.50	2.93	10.61	20.39	-2.01	1.37	-4.26	0.24	19.83
E 0.40	7	13.06	3.78	6.86	19.25	-7.02	3.03	-11.99	-2.05	16.53
T 0.50	7	12.29	3.03	7.12	17.06	-9.20	2.07	-12.59	-5.81	13.39
U 0.60	7	10.47	2.95	5.63	15.31	-11.95	2.14	-15.46	-8.43	10.16
R 0.70	7	9.88	1.88	6.80	12.96	1.35	-12.91	-15.11	-10.70	8.02
N 0.80	7	10.20	1.12	8.16	11.84	-13.31	0.94	-14.85	-11.78	6.43
O 0.90	6	10.54	0.45	9.81	11.27	-13.08	0.59	-14.35	-12.10	4.96
1.00	6	10.66	0.44	9.93	11.38	-12.77	0.53	-13.63	-11.91	4.42

MOVEMENT: LEFT HAND FROM THROTTLE CONTROLLER AT +20.0,
+10.0, +12.4 TO PANEL CONTROLLER AT +24.7,
+10.0, +23.0 AND RETURNS. RIGHT HAND REMAINS
AT STICK CONTROLLER AT +20.0, 0.0, +12.4.

MOTION NUMBER - 21240
BACK ANGLE - 13

SUB-MOVEMENT			
TIME DATA			
	MEAN	STD DEV	RANGE
LEFT FWD	0.50	0.09	0.40 TO 0.60 SECs.
LEFT REV	0.50	0.18	0.20 TO 0.70 SECs.

LANDMARK - NASION

(1)

TIME	SAMPLE SIZE,N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	6	6.49	1.16	4.59	8.40	0.67	0.69	-0.46	2.17	1.23	1.23	2.16	31.18	0.0	0.0	0.0	0.0
0.10	6	6.45	1.22	4.45	8.45	0.66	0.80	-0.66	1.98	2.26	1.15	2.37	31.16	0.11	0.11	0.11	0.11
F 0.20	6	6.41	1.28	4.32	8.51	0.62	0.93	-0.90	2.14	2.34	1.12	2.50	31.14	0.09	0.09	0.09	0.09
R 0.30	6	6.33	2.07	4.38	0.63	0.93	-0.90	2.16	2.33	1.11	2.51	31.14	0.09	0.09	0.09	0.09	
R 0.40	6	6.21	1.23	4.19	8.23	0.69	0.93	-0.83	2.22	2.33	1.09	2.55	31.11	0.13	0.13	0.13	0.13
W 0.50	6	6.14	1.27	4.05	8.22	0.70	0.89	-0.76	2.16	2.44	1.14	2.54	31.11	0.11	0.11	0.11	0.11
A 0.60	6	6.10	1.34	3.90	8.30	0.65	0.90	-0.83	2.12	2.47	1.19	2.52	31.11	0.09	0.09	0.09	0.09
R 0.70	6	6.13	1.40	3.83	8.43	0.67	0.92	-0.83	2.17	2.54	1.20	2.54	31.05	0.05	0.05	0.05	0.05
D 0.80	6	6.18	1.38	3.92	8.45	0.73	0.98	-0.88	2.34	2.54	1.22	2.54	31.03	0.08	0.08	0.08	0.08
U 0.90	6	6.13	1.35	3.92	8.33	0.71	0.93	-0.82	2.24	2.56	1.21	2.58	31.04	0.06	0.06	0.06	0.06
1.00	6	6.06	1.34	3.85	8.26	0.66	0.89	-0.79	2.12	2.59	1.20	2.62	31.07	0.09	0.09	0.09	0.09
0.0	6	6.06	1.34	3.85	8.26	0.66	0.89	-0.79	2.12	2.59	1.20	2.62	31.07	0.0	0.0	0.0	0.0
0.10	6	6.26	1.32	4.09	8.42	0.66	0.78	-0.62	1.94	2.42	1.18	2.49	31.36	0.26	0.26	0.26	0.26
G 0.20	6	6.37	1.30	4.24	8.49	0.62	0.75	-0.60	1.85	2.34	1.20	2.38	31.28	0.16	0.16	0.16	0.16
R 0.30	6	6.32	1.35	4.10	8.54	0.60	0.78	-0.68	1.88	2.29	1.24	2.26	31.33	0.06	0.06	0.06	0.06
E 0.40	6	6.28	1.41	3.96	8.59	0.60	0.81	-0.73	1.94	2.27	1.24	2.24	31.30	0.04	0.04	0.04	0.04
T 0.50	6	6.25	1.33	4.01	8.43	0.56	0.67	-0.55	1.67	2.19	1.16	2.21	31.16	0.10	0.10	0.10	0.10
U 0.60	6	6.31	1.17	4.39	8.23	0.50	0.63	-0.54	1.53	2.16	1.16	2.25	31.06	0.09	0.09	0.09	0.09
R 0.70	6	6.36	1.12	4.53	8.20	0.54	0.63	-0.50	1.58	2.15	1.14	2.27	31.03	0.07	0.07	0.07	0.07
N 0.80	6	6.40	1.09	4.61	8.20	0.63	0.61	-0.38	1.63	2.13	1.13	2.28	30.99	0.10	0.09	0.09	0.09
U 0.90	6	6.45	1.11	4.63	8.26	0.66	0.64	-0.40	1.72	2.15	1.17	2.23	31.06	0.06	0.06	0.06	0.06
1.00	6	6.49	1.16	4.59	8.40	0.67	0.69	-0.46	1.79	2.59	1.23	2.62	31.18	0.05	0.05	0.05	0.05

LANDMARK - CERVICALE

(2)

TIME	SAMPLE SIZE,N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	6	-1.13	1.46	-3.52	1.26	-1.06	0.87	-2.50	0.37	23.49	1.00	21.84	25.13	0.0	0.0	0.0	0.0
U 0.10	6	-1.18	1.45	-3.56	1.19	-0.98	0.77	-2.24	0.28	23.44	0.98	21.83	25.05	0.11	0.11	0.11	0.11
F 0.20	6	-1.21	1.44	-3.58	1.16	-0.91	0.74	-2.11	0.30	23.38	0.96	21.81	24.96	0.10	0.10	0.10	0.10
O 0.30	6	-1.23	1.44	-3.59	1.12	-0.83	0.77	-2.08	0.43	23.36	0.97	21.76	24.96	0.08	0.08	0.08	0.08
E 0.40	6	-1.26	1.53	-3.76	1.25	-0.79	0.80	-2.11	0.53	23.37	0.99	21.75	24.98	0.05	0.05	0.05	0.05
W 0.50	6	-1.26	1.67	-3.99	1.48	-0.83	0.83	-2.18	0.53	23.46	1.04	21.70	25.21	0.05	0.05	0.05	0.05
A 0.60	6	-1.20	1.63	-3.89	1.48	-0.87	0.84	-2.25	0.50	23.46	1.07	21.71	25.21	0.09	0.09	0.09	0.09
R 0.70	6	-1.15	1.60	-3.77	1.47	-0.90	0.84	-2.27	0.48	23.47	1.02	21.80	25.13	0.06	0.06	0.06	0.06
D 0.80	6	-1.15	1.55	-3.69	1.40	-0.90	0.82	-2.24	0.44	23.48	0.98	21.88	25.09	0.01	0.01	0.01	0.01
U 0.90	6	-1.19	1.57	-3.77	1.39	-0.91	0.79	-2.20	0.39	23.46	0.99	21.83	25.09	0.04	0.04	0.04	0.04
1.00	6	-1.23	1.63	-3.91	1.44	-0.92	0.78	-2.20	0.36	23.43	1.02	21.76	25.11	0.06	0.06	0.06	0.06
0.0	6	-1.23	1.63	-3.91	1.44	-0.92	0.78	-2.20	0.36	23.43	1.02	21.76	25.11	0.0	0.0	0.0	0.0
U 0.10	6	-1.13	1.60	-3.75	1.50	-0.96	0.78	-2.23	0.32	23.42	0.99	21.79	25.05	0.11	0.11	0.11	0.11
R 0.20	6	-1.11	1.56	-3.68	1.45	-0.99	0.77	-2.26	0.28	23.44	0.99	21.82	25.06	0.04	0.04	0.04	0.04
R 0.30	6	-1.23	1.56	-3.78	1.32	-1.02	0.81	-2.36	0.32	23.52	0.99	21.89	25.15	0.15	0.15	0.15	0.15
E 0.40	6	-1.31	1.56	-3.86	1.25	-1.07	0.88	-2.51	0.37	23.54	1.02	21.87	25.21	0.10	0.10	0.10	0.10
T 0.50	6	-1.36	1.49	-3.80	1.09	-1.10	0.85	-2.50	0.29	23.48	1.04	21.76	25.19	0.09	0.09	0.09	0.09
U 0.60	6	-1.33	1.45	-3.77	1.11	-1.02	0.78	-2.30	0.26	23.42	0.97	21.83	25.01	0.10	0.10	0.10	0.10
R 0.70	6	-1.24	1.45	-3.62	1.15	-0.97	0.75	-2.20	0.26	23.41	0.93	21.88	24.94	0.11	0.11	0.11	0.11
N 0.80	6	-1.12	1.41	-3.44	1.20	-1.01	0.73	-2.21	0.19	23.44	0.98	21.83	25.05	0.13	0.13	0.13	0.13
U 0.90	6	-1.10	1.44	-3.46	1.17	-1.04	0.80	-2.35	0.27	23.47	1.00	21.83	25.11	0.05	0.05	0.05	0.05
1.00	6	-1.13	1.46	-3.52	1.26	-1.06	0.79	-2.30	0.37	23.49	1.00	21.84	25.13	0.05	0.05	0.05	0.05

LANDMARK - SUPRASTERNAL (3)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE,N	5	3.17	0.82	1.83	4.52	-0.25	0.72	-1.44	0.93	22.14	0.84	20.76	23.52	J.0	0.0	0.0	0.0
0.0	A	5	3.34	0.95	1.79	4.90	-0.00	1.12	-1.84	22.13	0.81	20.80	23.46	J.0	0.0	0.0	0.0	
0.10	F	6	3.57	1.09	1.79	5.35	0.07	1.18	-1.86	2.01	22.08	0.71	20.91	23.25	J.0	0.0	0.0	0.0
0.20	R	6	3.41	1.06	1.67	5.14	-0.08	0.89	-1.54	1.38	22.07	0.73	20.87	23.27	J.0	0.0	0.0	0.0
0.30	R	6	3.37	1.08	1.63	5.11	-0.12	0.83	-1.47	1.24	22.05	0.78	20.78	23.32	J.0	0.0	0.0	0.0
0.40	R	6	3.36	1.00	1.72	5.00	-0.12	0.83	-1.49	1.24	22.03	0.88	20.62	23.52	J.0	0.0	0.0	0.0
0.50	W	6	3.30	1.07	1.56	5.05	-0.17	0.78	-1.45	1.10	22.19	0.81	20.86	23.53	J.0	0.0	0.0	0.0
0.60	A	6	3.30	1.07	1.17	5.25	-0.19	0.74	-1.40	1.03	22.04	0.72	21.02	23.39	J.0	0.0	0.0	0.0
0.70	R	6	3.33	1.14	1.53	5.28	-0.20	0.74	-1.41	1.02	22.14	0.76	20.90	23.38	J.0	0.0	0.0	0.0
0.80	D	6	3.41	0.96	1.82	4.98	-0.23	0.76	-1.44	1.04	22.04	0.79	20.91	23.50	J.0	0.0	0.0	0.0
0.90	D	6	3.44	0.96	1.76	4.73	-0.21	0.82	-1.56	1.14	22.29	0.80	20.97	23.61	J.0	0.0	0.0	0.0
1.00	A	6	3.39	0.82	2.06	4.73	-0.17	0.78	-1.45	1.10	22.19	0.81	20.86	23.53	J.0	0.0	0.0	0.0
R	6	3.47	0.86	2.05	4.89	-0.25	0.70	-1.40	0.91	22.24	0.83	20.88	23.59	J.0	0.0	0.0	0.0	
0.20	R	6	3.51	0.93	1.98	5.04	-0.32	0.64	-1.36	0.73	22.07	0.77	20.80	23.33	J.0	0.0	0.0	0.0
0.30	R	6	3.44	1.03	1.75	5.14	-0.36	0.63	-1.39	0.67	21.56	1.19	19.71	23.62	J.0	0.0	0.0	0.0
0.40	E	6	3.27	1.04	1.55	4.98	-0.32	0.64	-1.37	0.72	21.84	1.01	20.15	23.46	J.0	0.0	0.0	0.0
0.50	T	6	3.18	1.10	1.38	4.98	-0.28	0.72	-1.46	0.90	22.18	0.80	20.86	23.50	J.0	0.0	0.0	0.0
0.60	U	6	3.24	1.04	1.53	4.95	-0.30	0.71	-1.46	0.86	20.88	0.80	20.85	23.48	J.0	0.0	0.0	0.0
0.70	R	6	3.27	0.93	1.80	4.74	-0.27	0.64	-1.32	0.78	22.14	0.81	20.81	23.47	J.0	0.0	0.0	0.0
0.80	N	5	3.15	1.75	1.93	4.38	-0.29	0.75	-1.52	0.93	22.13	0.96	20.55	23.71	J.0	0.0	0.0	0.0
0.90	N	5	3.17	0.77	1.91	4.42	-0.31	0.77	-1.57	0.90	22.12	0.93	20.60	23.65	J.0	0.0	0.0	0.0
1.00	A	5	3.17	0.82	1.83	4.52	-0.25	0.72	-1.44	0.93	22.14	0.84	20.76	23.52	J.0	0.0	0.0	0.0

LANDMARK - LT ACROMION (5)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE,N	6	0.43	0.97	-2.03	1.17	6.75	0.63	5.72	7.73	22.57	1.04	20.86	24.23	J.0	0.0	0.0	0.0
0.0	B	6	0.58	0.93	-2.11	0.35	6.77	0.65	5.71	7.82	22.55	1.01	20.93	24.21	J.0	0.0	0.0	0.0
0.10	F	6	0.71	0.87	-2.14	0.71	6.78	0.67	5.68	7.88	22.53	0.98	20.92	24.14	J.0	0.0	0.0	0.0
0.20	D	6	0.75	0.84	-2.12	0.63	6.80	0.71	5.63	7.97	22.56	1.05	20.83	24.29	J.0	0.0	0.0	0.0
0.30	D	6	0.73	0.82	-2.07	0.61	6.83	0.74	5.62	8.04	22.53	1.08	20.86	24.40	J.0	0.0	0.0	0.0
0.40	R	6	0.69	0.81	-2.03	0.64	6.87	0.79	5.57	8.17	22.57	1.10	20.95	24.55	J.0	0.0	0.0	0.0
0.50	H	6	0.56	0.83	-1.92	0.79	6.82	0.69	5.69	7.95	22.84	1.13	20.99	24.69	J.0	0.0	0.0	0.0
0.60	A	6	0.44	0.83	-1.85	1.04	6.77	0.68	5.65	7.89	22.86	1.11	21.04	24.69	J.0	0.0	0.0	0.0
0.70	R	6	0.26	0.92	-1.97	1.24	6.75	0.81	5.43	8.07	22.93	1.11	21.09	24.72	J.0	0.0	0.0	0.0
0.80	D	5	0.34	0.70	-1.19	1.12	6.82	0.80	5.51	8.13	23.23	1.04	21.53	24.93	J.0	0.0	0.0	0.0
0.90	N	5	0.37	0.79	-1.36	1.22	6.81	0.72	5.63	8.00	23.34	1.04	21.61	25.01	J.0	0.0	0.0	0.0
1.00	T	5	0.07	0.79	-1.36	1.22	6.81	0.72	5.63	8.03	23.34	1.04	21.61	25.01	J.0	0.0	0.0	0.0
R	6	0.40	0.66	-1.08	1.09	6.72	0.64	5.68	7.77	23.23	0.95	21.66	24.79	J.0	0.0	0.0	0.0	
0.20	R	6	0.25	0.86	-1.65	1.16	6.59	0.55	5.68	7.49	22.89	1.05	21.16	24.51	J.0	0.0	0.0	0.0
0.30	R	6	0.39	0.94	-1.94	1.16	6.57	0.63	5.54	7.59	22.80	1.00	21.22	24.49	J.0	0.0	0.0	0.0
0.40	E	6	0.53	0.94	-2.08	1.02	6.59	0.69	5.47	7.72	22.84	1.01	21.18	24.50	J.0	0.0	0.0	0.0
0.50	T	6	0.60	0.90	-2.09	0.88	6.56	0.62	5.55	7.57	22.75	1.04	21.04	24.46	J.0	0.0	0.0	0.0
0.60	U	6	0.53	0.88	-1.97	0.91	5.55	0.53	5.67	7.43	22.62	1.00	20.98	24.26	J.0	0.0	0.0	0.0
0.70	R	6	0.49	0.88	-1.93	0.96	6.62	0.60	5.63	7.61	22.54	0.97	20.92	24.11	J.0	0.0	0.0	0.0
0.80	N	6	0.43	0.90	-1.90	1.03	6.59	0.64	5.64	7.73	22.52	1.02	20.84	24.20	J.0	0.0	0.0	0.0
0.90	N	6	0.41	0.92	-1.92	1.10	6.74	0.60	5.75	7.72	22.51	1.04	20.80	24.22	J.0	0.0	0.0	0.0
1.00	J	6	0.43	0.97	-2.03	1.17	6.75	0.63	5.72	7.78	22.57	1.07	20.86	24.28	J.0	0.0	0.0	0.0

LANDMARK - LT GRIP CENTER (17)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	18.71	0.97	17.11	20.30	9.82	0.54	8.93	10.72	12.67	0.43	11.97	13.37	0.0	0.0	5	0.0	
0.10	S	18.52	0.68	17.41	19.64	9.65	0.55	8.75	10.54	14.25	1.15	12.37	16.13	1.60	1.60	5	0.0	
F	0.20	6	18.47	0.36	17.87	15.07	9.54	0.63	8.20	10.58	15.89	1.44	13.52	18.25	1.64	3.24	5	0.0
O	0.30	6	18.70	0.20	18.37	19.02	9.57	0.71	8.41	10.73	18.14	0.96	16.57	19.72	2.27	5.51	5	0.0
R	0.40	6	19.27	0.34	18.71	19.84	9.57	0.71	8.41	10.73	20.23	1.02	18.55	21.91	2.16	7.67	5	0.0
W	0.50	6	19.86	0.67	18.75	20.97	9.60	0.64	8.25	10.66	21.34	1.01	19.69	23.00	1.26	8.93	5	0.0
A	0.60	6	21.15	1.16	19.24	23.05	9.77	0.62	8.75	10.78	22.98	2.33	19.16	26.80	2.09	11.02	5	0.0
R	0.70	6	21.67	0.72	20.50	22.85	9.98	0.56	9.07	10.89	22.69	0.98	21.09	24.29	0.64	11.66	5	0.0
D	0.80	6	22.35	0.69	21.21	23.48	10.22	0.55	9.32	11.11	22.81	0.90	21.33	24.28	0.72	12.39	5	0.0
O	0.90	6	22.58	0.71	21.40	23.75	10.33	0.49	9.53	11.13	22.74	0.89	21.28	24.19	0.26	12.65	5	0.0
N	1.00	6	22.76	0.81	21.43	24.09	10.41	0.41	9.73	11.09	22.64	0.90	21.17	24.11	0.22	12.87	5	0.0

LANDMARK - LT TROCHANTER (19)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	22.76	0.81	21.43	24.09	10.41	0.41	9.73	11.09	22.64	0.90	21.17	24.11	0.0	0.0	5	0.0	
0.10	S	22.04	0.58	21.09	23.00	10.20	0.54	9.32	11.09	22.27	1.27	20.18	24.36	0.83	0.83	5	0.0	
O	0.20	6	21.11	0.62	20.09	22.14	9.93	0.68	8.81	11.05	21.31	1.71	24.71	1.07	1.90	5	0.0	
R	0.30	6	19.97	0.78	18.70	21.24	9.64	0.66	8.56	10.72	20.89	2.26	17.18	26.60	1.50	3.40	5	0.0
E	0.40	6	19.18	0.80	17.87	20.50	9.45	0.62	8.44	10.46	19.53	2.28	15.79	23.26	1.58	4.98	5	0.0
T	0.50	6	18.62	0.80	17.31	19.94	9.44	0.57	8.50	10.38	17.92	2.06	14.53	21.30	1.70	6.69	5	0.0
U	0.60	5	18.59	0.99	16.97	20.22	9.53	0.54	8.64	10.42	16.25	1.51	13.78	18.72	1.67	8.36	5	0.0
R	0.70	5	18.45	1.13	16.59	20.31	9.81	0.60	8.83	10.79	14.92	0.80	13.61	16.23	1.37	9.73	5	0.0
N	0.80	5	18.46	1.13	16.61	20.30	9.87	0.45	9.13	10.61	13.92	0.55	13.01	14.83	1.00	10.73	5	0.0
O	0.90	5	18.60	1.03	16.92	20.29	9.83	0.43	9.12	10.53	13.25	0.40	12.60	13.91	0.68	11.41	5	0.0
W	1.00	5	18.71	0.97	17.11	20.30	9.82	0.54	8.93	10.72	12.67	0.43	11.97	13.37	0.59	12.00	5	0.0

201

LANDMARK - LT KNEE TOP (21)

TIME	SAMPLE SIZE,N	(- - - - - X - CO-ORDINATE - - - - -)					(- - - - - Y - CO-ORDINATE - - - - -)					(- - - - - Z - CO-ORDINATE - - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	0.0	2.0	0.18	0.92	1.0	1.67	2.1	1.68	5.57	0.96	3.99	7.14	11.38	1.37	9.13	13.63	0.0
O	0.1	6	20.25	0.86	18.88	21.62	5.60	0.94	4.06	7.13	11.38	1.39	9.10	13.75	0.04	0.04	0.0
J	0.2	6	20.23	1.02	18.57	21.63	5.63	0.92	4.12	7.13	11.41	1.61	8.47	13.75	0.28	0.32	0.32
R	0.3	6	20.15	1.09	18.23	22.08	5.59	0.98	3.98	7.21	10.36	3.04	5.38	15.34	0.75	0.75	1.07
E	0.4	6	20.15	1.09	18.36	21.95	5.50	1.08	3.76	7.29	10.58	2.50	6.59	14.77	0.34	1.41	1.41
N	0.5	6	20.19	0.98	18.58	21.81	5.54	1.06	3.68	7.31	11.52	1.39	9.23	13.80	0.34	2.24	2.24
A	0.6	6	20.21	0.97	18.62	21.79	5.55	1.05	3.82	7.27	11.47	1.36	9.24	13.70	0.04	2.35	2.35
R	0.7	6	20.24	0.97	18.65	21.82	5.49	1.00	3.84	7.14	11.46	1.39	9.18	13.85	0.12	2.41	2.41
D	0.8	6	20.13	0.85	18.73	21.53	5.47	0.89	4.02	6.93	11.42	1.42	9.20	13.75	0.12	2.53	2.53
O	0.9	6	20.00	0.78	18.73	21.28	5.47	0.80	4.16	6.78	11.57	1.45	9.19	13.95	0.14	2.67	2.67
I	1.00	6	20.00	0.92	18.78	21.81	5.54	1.06	3.80	7.28	11.54	1.36	9.28	13.75	0.06	2.30	2.30
O	0.0	6	20.14	0.89	18.67	21.60	5.47	0.99	3.86	7.09	11.32	1.44	9.16	13.87	0.14	0.14	0.14
O	0.1	6	20.20	1.00	18.57	21.84	5.44	1.12	3.61	7.28	11.50	1.64	9.13	13.86	0.08	0.22	0.22
R	0.30	6	20.13	0.99	18.50	21.76	5.37	1.15	3.48	7.26	11.52	1.42	9.19	13.85	0.11	0.33	0.33
E	0.40	6	19.96	1.00	18.32	21.60	5.26	1.12	3.43	7.10	11.52	1.41	9.20	13.84	0.20	0.53	0.53
T	0.50	6	19.85	1.09	18.06	21.64	5.23	1.19	3.28	7.17	11.49	1.40	9.21	13.78	0.12	0.65	0.65
U	0.60	6	19.97	1.02	18.30	21.63	5.33	1.13	3.49	7.18	11.44	1.41	9.13	13.75	0.17	0.82	0.82
R	0.70	6	20.08	0.97	18.48	21.67	5.44	1.13	3.58	7.30	11.38	1.40	9.09	13.67	0.17	0.99	0.99
N	0.80	6	20.15	0.95	18.59	21.72	5.46	1.07	3.71	7.21	11.36	1.41	9.04	13.68	0.08	1.07	1.07
O	0.90	6	20.19	0.94	18.64	21.14	5.52	1.00	3.88	7.16	11.36	1.38	9.10	13.62	0.07	1.14	1.14
I	1.00	6	20.18	0.92	18.67	21.68	5.57	0.96	3.99	7.14	11.38	1.37	9.13	13.63	0.06	1.19	1.19

LANDMARK - LT SHOULDER CENTER (23)

TIME	SAMPLE SIZE,N	(- - - - - X - CO-ORDINATE - - - - -)					(- - - - - Y - CO-ORDINATE - - - - -)					(- - - - - Z - CO-ORDINATE - - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	0.0	6	0.68	0.65	-0.39	1.76	0.93	5.54	8.61	20.43	1.24	18.40	22.46	0.0	0.0	0.0	0.0
O	0.10	6	0.63	0.74	-0.59	1.85	6.92	0.96	5.35	8.49	20.57	1.19	18.61	22.52	0.21	0.21	0.21
F	0.20	6	0.59	0.80	-0.72	1.89	6.80	1.05	5.08	8.52	20.66	1.20	18.62	22.62	0.16	0.37	0.37
O	0.30	6	0.66	0.72	-0.53	1.84	6.94	1.10	5.14	8.75	20.56	1.29	18.74	22.78	0.16	0.52	0.52
R	0.40	6	0.75	0.76	-0.49	2.00	7.08	1.11	5.25	8.91	20.73	1.21	18.79	22.77	0.21	0.73	0.73
W	0.50	6	0.88	0.87	-0.55	2.31	7.10	1.13	5.24	8.96	21.00	1.10	19.20	22.81	0.26	0.99	0.99
A	0.60	6	1.09	0.65	2.16	7.11	1.16	5.20	9.02	21.13	1.14	19.26	22.00	0.24	1.23	1.23	
R	0.70	6	1.26	0.24	2.29	7.13	1.16	5.23	9.04	21.23	1.12	19.38	23.07	0.20	1.43	1.43	
D	0.80	6	1.35	0.76	0.11	2.60	7.11	1.11	5.28	8.93	21.32	1.10	19.52	23.13	0.13	1.57	1.57
O	0.90	6	1.37	0.35	-0.03	2.77	7.14	1.09	5.35	8.97	21.39	1.11	19.58	23.21	0.08	1.65	1.65
I	1.00	6	1.45	0.90	-0.02	2.92	7.16	1.10	5.36	8.97	21.38	1.19	19.43	23.34	0.08	1.73	1.73
O	0.0	6	1.45	0.85	0.05	2.84	7.11	1.16	5.22	8.97	21.38	1.19	19.43	23.34	0.0	0.0	0.0
O	0.10	6	1.34	0.81	0.01	2.67	7.05	1.19	5.09	9.00	21.18	1.07	19.43	22.93	0.11	0.11	0.11
R	0.30	6	1.07	0.67	-0.03	2.18	6.91	1.14	5.05	8.77	21.04	1.14	19.17	22.91	0.16	0.33	0.33
E	0.40	6	0.82	0.71	-0.35	2.00	6.85	1.10	5.04	8.66	20.95	1.25	18.90	22.99	0.27	0.60	0.60
T	0.50	6	0.53	0.79	-0.76	1.82	6.91	1.07	5.16	8.67	20.88	1.26	18.82	22.94	0.34	1.19	1.19
U	0.60	6	0.51	0.75	-0.71	1.72	6.90	1.03	5.21	8.59	20.85	1.14	18.98	22.71	0.04	1.23	1.23
R	0.70	6	0.61	0.75	-0.62	1.84	6.88	0.96	5.30	8.45	20.75	1.15	18.87	22.63	0.14	1.38	1.38
N	0.80	6	0.73	0.73	-0.32	1.78	6.87	0.91	5.37	8.37	20.63	1.24	18.61	22.66	0.17	1.54	1.54
O	0.90	6	0.73	0.62	-0.29	1.75	6.95	0.94	5.42	8.49	20.53	1.24	18.50	22.57	0.13	1.66	1.66
I	1.00	6	0.68	0.65	-0.39	1.76	7.07	0.93	5.54	8.64	20.43	1.24	18.40	22.46	0.16	1.84	1.84

202

LANDMARK - LT ELBOW CENTER

(25)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		T SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	W	6	5.69	0.82	4.35	7.03	11.94	0.67	10.05	13.04	12.35	1.63	9.68	15.03	0.0	0.0	0.0	0.0
0.10	A	6	5.88	0.62	4.87	6.89	11.81	0.67	10.71	12.91	12.10	2.04	8.76	15.44	0.34	0.34	0.34	0.34
F	0.20	6	6.12	0.60	5.13	7.11	11.72	0.80	10.41	13.02	12.24	2.19	8.62	15.79	0.28	0.28	0.28	0.28
0	0.30	6	6.70	0.67	5.60	7.80	11.80	0.97	10.22	13.39	13.32	1.52	10.83	15.81	1.26	1.26	1.26	1.26
R	0.40	6	7.49	0.65	6.43	8.56	11.89	1.08	10.12	13.66	14.39	1.27	12.32	16.47	1.33	1.33	1.33	1.33
R	0.50	6	8.35	0.61	7.35	9.35	11.91	1.10	10.06	13.69	15.42	1.32	13.25	17.55	1.34	1.34	1.34	1.34
A	0.60	6	9.09	0.67	7.99	10.18	11.88	1.11	10.06	13.36	14.46	1.46	13.98	18.75	1.20	1.20	1.20	1.20
R	0.70	6	9.72	0.65	8.65	10.79	11.81	1.04	10.10	13.51	17.10	1.43	14.75	19.44	0.97	0.97	0.97	0.97
D	0.80	6	10.17	0.65	9.10	11.24	11.70	1.00	10.07	13.34	17.64	1.45	15.26	20.02	0.72	0.72	0.72	0.72
N	0.90	5	10.35	0.71	9.18	11.52	11.55	1.03	9.85	13.24	17.94	1.61	15.29	20.59	0.38	0.38	0.38	0.38
R	1.00	5	10.41	0.79	9.11	11.70	11.47	1.02	9.79	13.14	18.17	1.64	15.48	20.86	0.25	0.25	0.25	0.25
0.0	W	5	10.41	0.79	9.11	11.70	11.47	1.02	9.79	13.14	18.17	1.64	15.48	20.86	0.0	0.0	0.0	0.0
0.10	R	5	9.87	0.43	9.16	10.57	11.76	1.07	10.00	13.52	17.31	1.56	14.75	19.87	1.05	1.05	1.05	1.05
0.20	R	5	9.22	0.41	8.55	9.89	11.99	1.12	10.16	13.83	16.42	1.58	13.83	19.02	1.12	1.12	2.18	2.18
R	0.30	5	8.30	0.42	7.63	9.02	12.08	1.16	10.18	13.99	15.54	1.29	12.97	18.11	1.26	1.26	3.44	3.44
E	0.40	5	7.43	0.42	6.73	8.12	12.18	1.23	10.16	14.20	14.81	1.54	12.34	17.31	1.16	1.16	4.60	4.60
T	0.50	6	6.49	0.36	5.90	7.08	12.33	1.12	10.50	14.16	13.97	1.49	11.53	16.41	1.26	1.26	5.86	5.86
U	0.60	6	6.07	0.54	5.18	6.95	12.32	1.06	10.58	13.52	15.50	1.50	11.05	15.98	0.62	0.62	6.49	6.49
R	0.70	6	5.83	0.78	4.54	7.11	12.36	1.08	10.58	14.13	13.10	1.53	10.60	15.60	0.48	0.48	6.31	6.31
N	0.80	6	5.75	0.73	4.56	6.94	12.30	0.99	10.68	13.92	12.78	1.59	10.16	15.39	0.34	0.34	7.57	7.57
O	0.90	6	5.73	0.72	4.56	6.91	12.15	0.84	10.78	13.52	12.57	1.61	9.93	15.20	0.26	0.26	7.57	7.57
R	1.00	6	5.69	0.82	4.35	7.03	11.94	0.67	10.85	13.04	12.35	1.63	15.03	19.68	0.30	0.30	7.86	7.86

LANDMARK - LT WRIST CENTER

(27)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		T SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	W	6	15.64	0.86	14.23	17.05	10.48	0.49	9.67	11.30	12.38	0.73	11.18	13.58	0.0	0.0	0.0	0.0
0.10	R	6	15.50	0.70	14.36	16.65	10.30	0.72	9.12	11.48	13.54	1.26	11.48	15.60	1.18	1.18	2.58	2.58
F	0.20	6	15.41	0.61	14.31	16.67	10.10	0.95	8.54	11.67	14.93	1.63	12.25	17.60	1.40	1.40	4.37	4.37
O	0.30	6	15.95	0.56	15.03	16.87	9.99	0.58	8.40	11.59	16.53	1.24	14.59	18.66	1.79	1.79	5.99	5.99
R	0.40	6	16.66	0.67	15.56	17.75	10.03	1.04	8.33	11.73	18.08	1.14	16.21	19.95	1.62	1.62	7.38	7.38
W	0.50	6	17.39	0.72	16.21	18.57	10.20	1.10	8.40	12.03	19.25	1.03	17.57	20.93	1.39	1.39	6.95	6.95
A	0.60	6	18.26	0.84	16.89	19.64	10.45	1.15	8.56	12.34	20.06	1.15	18.17	21.95	1.21	1.21	9.53	9.53
R	0.70	6	19.03	0.84	17.65	20.42	10.69	1.16	8.78	12.59	20.54	1.09	18.75	22.32	0.94	0.94	9.53	9.53
D	0.80	6	19.66	0.79	18.36	20.96	10.79	1.00	9.15	12.43	20.79	1.12	18.95	22.62	0.69	0.69	10.22	10.22
O	0.90	6	19.92	0.85	18.53	21.32	10.91	0.84	9.53	12.28	20.80	1.14	18.94	22.67	0.29	0.29	10.50	10.50
R	1.00	6	20.10	1.03	18.42	21.79	11.06	0.83	9.69	12.43	20.78	1.17	18.86	22.70	0.24	0.24	10.74	10.74
0.0	R	6	20.10	1.03	18.42	21.79	11.06	0.83	9.69	12.43	20.78	1.17	18.86	22.70	0.0	0.0	0.0	0.0
0.10	R	6	19.51	0.57	18.58	20.44	10.97	0.95	9.41	12.54	20.19	1.37	17.94	22.44	0.84	0.84	0.84	0.84
0.20	R	6	18.69	0.57	17.77	15.62	10.75	1.10	8.95	12.55	19.62	1.69	16.84	22.40	1.02	1.02	1.86	1.86
R	0.30	6	17.59	0.81	16.26	18.91	10.43	0.92	8.92	11.94	18.94	2.05	15.57	22.31	1.34	1.34	3.20	3.20
E	0.40	6	16.53	0.84	15.16	17.90	10.37	0.70	8.70	11.51	17.93	2.02	14.61	21.24	1.46	1.46	4.67	4.67
T	0.50	6	15.58	0.88	14.14	17.02	10.50	0.64	9.46	11.55	16.64	1.85	13.61	19.68	1.61	1.61	6.27	6.27
U	0.60	6	15.33	0.94	13.79	16.87	10.52	0.60	9.54	11.53	15.51	1.48	13.08	17.94	1.16	1.16	7.43	7.43
R	0.70	6	15.22	0.95	13.66	16.78	10.66	0.67	9.56	11.77	14.43	1.15	12.55	16.32	1.09	1.09	8.52	8.52
N	0.80	6	15.24	0.90	13.77	16.70	10.69	0.65	9.63	11.75	13.58	1.07	11.82	15.33	0.86	0.86	9.38	9.38
O	0.90	6	15.42	0.83	14.06	16.78	10.61	0.57	9.68	11.54	12.97	0.85	11.57	14.36	0.64	0.64	10.02	10.02
R	1.00	6	15.64	0.86	14.23	17.05	10.48	0.49	9.67	11.30	12.38	0.73	13.58	16.66	0.64	0.64	10.66	10.66

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO PANEL CONTROLLER AT +24.7, +10.0, +23.0 AND RETURNS. RIGHT HAND REMAINS AT SIDE-ARM CONTROLLER AT +15.0, -13.0, +4.8.

MOTION NUMBER - 22240
BACK ANGLE - 13

SUB-MOVEMENT	TIME DATA			RANGE
	MEAN	STD DEV		
LEFT FWD	0.49	0.11		0.40 TO 0.60 SECS.
LEFT REV	0.51	0.13		0.30 TO 0.70 SECS.

LANDMARK - NASTION

(1)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	6.35	1.19	4.39	8.30	1.03	0.82	-0.32	2.37	29.44	1.19	27.16	31.07	0.3	0.3	0.3	0.0	
0.10	T	6.20	1.18	4.27	8.13	0.87	0.85	-0.53	2.27	29.44	1.10	27.60	31.22	0.36	0.36	0.36	0.36	
F	0.20	6.04	1.21	4.05	8.03	0.76	1.00	-0.89	2.40	29.62	1.08	27.86	31.39	0.29	0.29	0.29	0.66	
O	0.30	5.88	1.27	3.80	7.95	0.69	1.08	-1.08	2.46	29.54	1.03	27.96	31.33	0.17	0.17	0.17	0.83	
R	0.40	5.84	1.22	3.84	7.84	0.66	1.17	-1.26	2.57	29.51	1.05	27.89	31.33	0.06	0.06	0.06	0.69	
M	0.50	5.87	1.15	3.98	7.75	0.65	1.26	-1.42	2.72	29.57	1.12	27.74	31.41	0.04	0.04	0.04	0.93	
A	0.60	5.73	1.19	3.78	7.68	0.75	1.32	-1.41	2.91	29.53	1.10	27.73	31.33	0.18	0.18	0.18	1.11	
R	0.70	5.58	1.29	3.46	7.70	0.87	1.40	-1.43	3.17	29.50	1.08	27.74	31.27	0.19	0.19	0.19	1.30	
D	0.80	5.54	1.35	3.34	7.75	0.92	1.39	-1.35	3.20	29.52	1.07	27.76	31.28	0.06	0.06	0.06	1.37	
N	0.90	5.69	1.23	3.67	7.72	0.84	1.27	-1.25	2.93	29.56	1.11	27.73	31.38	0.17	0.17	0.17	1.54	
P	1.00	5.86	1.11	4.03	7.68	0.74	1.17	-1.18	2.66	29.50	1.17	27.68	31.51	0.20	0.20	0.20	1.74	
U	0.0	7	5.86	1.11	4.03	7.68	0.74	1.17	2.66	29.60	1.17	27.68	31.51	0.0	0.0	0.0	0.0	
O	0.10	7	6.05	1.16	4.29	8.10	0.61	0.90	2.35	29.41	1.09	27.63	31.19	0.27	0.27	0.27	0.48	
R	0.30	7	6.19	1.19	4.24	8.14	0.57	0.92	2.13	29.43	1.05	27.57	31.00	0.21	0.21	0.21	0.55	
E	0.40	7	6.17	1.19	4.19	8.12	0.67	0.81	2.07	29.23	1.08	27.46	31.00	0.07	0.07	0.07	0.55	
T	0.50	7	6.19	1.26	4.13	8.26	0.71	0.78	0.99	29.13	1.11	27.32	30.95	0.14	0.14	0.14	0.69	
U	0.60	7	6.18	1.31	4.04	8.33	0.80	0.79	0.50	2.09	29.09	1.13	27.23	30.95	0.06	0.06	0.06	0.76
R	0.70	7	6.19	1.22	4.18	8.19	0.85	0.73	0.35	2.05	29.13	1.12	27.30	30.97	0.10	0.10	0.10	0.85
N	0.80	7	6.18	1.18	4.25	8.12	0.81	0.71	0.35	1.98	29.17	1.12	27.32	31.01	0.06	0.06	0.06	0.91
P	0.90	7	6.25	1.16	4.35	8.14	0.90	0.76	0.35	2.14	29.15	1.15	27.30	31.06	0.04	0.04	0.04	0.95
S	1.00	7	6.35	1.19	4.39	8.30	1.03	0.82	0.32	2.37	29.11	1.19	27.23	31.07	0.11	0.11	0.11	1.06
M	0.0	7	5.86	1.11	4.15	7.95	0.70	1.01	0.96	2.35	29.41	1.09	27.73	31.33	0.17	0.17	0.17	1.23
A	0.10	7	6.05	1.16	4.29	8.10	0.61	0.90	2.13	29.41	1.05	27.57	31.00	0.21	0.21	0.21	0.48	
R	0.30	7	6.19	1.19	4.24	8.14	0.57	0.92	2.07	29.23	1.08	27.46	31.00	0.07	0.07	0.07	0.55	
E	0.40	7	6.17	1.19	4.19	8.12	0.67	0.81	2.07	29.13	1.11	27.32	30.95	0.14	0.14	0.14	0.69	
T	0.50	7	6.19	1.26	4.13	8.26	0.71	0.78	0.99	29.09	1.13	27.23	30.95	0.06	0.06	0.06	0.76	
U	0.60	7	6.18	1.31	4.04	8.33	0.80	0.79	0.50	2.09	29.13	1.12	27.30	30.97	0.10	0.10	0.10	0.85
R	0.70	7	6.19	1.22	4.18	8.19	0.85	0.73	0.35	2.05	29.17	1.12	27.32	31.01	0.06	0.06	0.06	0.91
N	0.80	7	6.18	1.18	4.25	8.12	0.81	0.71	0.35	1.98	29.15	1.15	27.30	31.06	0.04	0.04	0.04	0.95
P	0.90	7	6.25	1.16	4.35	8.14	0.90	0.76	0.35	2.14	29.15	1.15	27.30	31.07	0.11	0.11	0.11	1.06
S	1.00	7	6.35	1.19	4.39	8.30	1.03	0.82	0.32	2.37	29.11	1.19	27.23	31.07	0.17	0.17	0.17	1.23

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LANDMARK - CERVICALE

(2)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	-1.05	1.05	1.45	-1.55	-0.95	0.90	-2.43	0.52	23.20	0.81	21.94	24.59	0.0	0.0	0.0	0.0	
O	0.10	-1.20	1.39	-3.49	1.08	-0.95	0.71	-2.11	0.22	23.35	0.90	21.90	24.85	0.19	0.19	0.19	0.32	
F	0.20	-1.31	1.32	-3.47	0.85	-0.92	0.59	-1.89	0.05	23.45	1.02	21.98	25.13	0.13	0.13	0.13	0.34	
O	0.30	-1.32	1.29	-3.43	0.78	-0.92	0.63	-1.95	0.11	23.46	0.98	21.85	25.06	0.02	0.02	0.02	0.44	
R	0.40	-1.37	1.26	-3.42	0.69	-0.92	0.71	-2.14	0.20	23.46	0.97	21.87	25.06	0.07	0.07	0.07	0.44	
M	0.50	-1.43	1.24	-3.47	0.61	-0.91	0.81	-2.34	0.31	23.47	0.98	21.86	25.07	0.07	0.07	0.07	0.48	
A	0.60	-1.47	1.26	-3.54	0.59	-0.98	0.80	-2.30	0.34	23.45	0.91	21.91	24.89	0.08	0.08	0.08	0.57	
R	0.70	-1.50	1.28	-3.60	0.60	-0.93	0.81	-2.25	0.39	23.45	0.84	21.96	24.73	0.07	0.07	0.07	0.65	
D	0.80	-1.47	1.30	-3.61	0.67	-0.88	0.86	-2.28	0.33	23.37	0.80	22.00	24.68	0.07	0.07	0.07	0.71	
N	0.90	-1.36	1.32	-3.52	0.81	-0.97	0.92	-2.48	0.54	23.44	0.81	22.08	24.74	0.15	0.15	0.15	0.87	
P	1.00	-1.21	1.36	-3.44	1.01	-0.99	0.99	-2.74	0.52	23.45	0.85	22.06	24.85	0.20	0.20	0.20	1.07	
U	0.0	7	-1.21	1.36	-3.44	1.01	-0.99	0.99	-2.74	0.52	23.45	0.85	22.06	24.85	0.0	0.0	0.0	0.0
O	0.40	7	-1.28	1.41	-3.50	1.03	-0.99	0.84	-2.40	0.35	23.47	0.83	22.12	24.83	0.11	0.11	0.11	0.22
R	0.30	7	-1.28	1.18	-3.58	1.02	-0.99	0.71	-2.16	0.18	23.38	0.74	22.17	24.58	0.10	0.10	0.10	0.45
E	0.40	7	-1.16	1.47	-3.56	1.25	-1.17	0.78	-2.44	0.10	23.48	0.75	21.95	24.42	0.03	0.03	0.03	0.56
T	0.50	-1.13	1.49	-3.57	1.31	-1.18	0.88	-2.63	0.26	23.44	0.73	21.94	24.34	0.03	0.03	0.03	0.60	
U	0.50	7	-1.19	1.51	-3.50	1.12	-1.10	0.85	-2.48	0.29	23.45	0.77	21.89	24.41	0.11	0.11	0.11	0.70
R	0.70	-1.19	1.34	-3.39	1.00	-1.08	0.82	-2.43	0.26	23.48	0.83	21.82	24.54	0.03	0.03	0.03	0.74	
N	0.80	7	-1.13	1.33	-3.31	1.23	-1.13	0.82	-2.48	0.22	23.48	0.86	21.84	24.67	0.11	0.11	0.11	0.85
P	0.90	7	-1.10	1.42	-3.42	1.03	-1.06	0.85	-2.46	0.34	23.47	0.84	21.89	24.65	0.08	0.08	0.08	0.92
S	1.00	7	-1.05	1.52	-3.55	1.45	-0.95	0.90	-2.43	0.52	23.26	0.81	21.94	24.59	0.12	0.12	0.12	0.05

WVMT NO. 22240/13

LANDMARK - SUPRASENTRAL (3)

TIME	SAMPLE	CO-ORDINATE - X					CO-ORDINATE - Y					CO-ORDINATE - Z					CO-ORDINATE -				
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	S 7	2.71	0.85	1.32	4.10	-0.73	0.99	-2.36	0.89	20.65	1.05	20.53	24.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
O .U	7	2.79	0.83	1.43	4.15	-0.60	0.96	-2.17	0.97	22.30	1.08	20.53	24.07	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
F 0.20	7	2.81	1.03	1.12	4.49	-0.50	0.98	-2.11	1.11	22.25	1.09	20.46	24.04	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
O 0.30	7	2.73	1.08	0.96	4.50	-0.56	1.00	-2.20	1.09	22.23	1.02	20.55	23.90	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
T	7	2.77	1.12	1.12	4.60	-0.66	1.06	-2.20	1.07	22.24	1.00	20.60	23.89	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
E 0.40	7	2.83	1.14	0.95	4.70	-0.76	1.12	-2.60	1.07	22.28	1.00	20.64	23.92	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
W 0.50	7	2.80	1.11	0.98	4.62	-0.67	0.95	-2.22	0.89	22.27	1.00	20.63	23.91	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
A 0.60	7	2.75	1.03	1.06	4.44	-0.46	0.78	-1.75	0.82	22.30	0.94	20.77	23.84	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
D 0.80	7	2.83	0.99	1.20	4.46	-0.45	0.89	-1.91	1.01	22.31	0.94	20.76	23.85	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
N 0.90	7	2.92	0.99	1.30	4.54	-0.42	1.04	-2.12	1.28	22.29	0.99	20.66	23.89	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
U 1.00	7	2.92	0.99	1.30	4.54	-0.42	1.04	-2.12	1.28	22.29	0.99	20.65	23.89	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
O .0	7	2.92	0.99	1.30	4.54	-0.42	1.04	-2.12	1.28	22.29	0.99	20.66	23.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
O .10	7	2.99	0.99	1.37	4.39	-0.60	0.95	-2.16	0.95	22.36	0.93	20.89	23.84	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
O .20	7	2.96	0.87	1.52	4.39	-0.81	0.83	-2.17	0.56	22.45	0.88	21.00	23.89	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
R 0.30	7	2.81	0.74	1.60	4.01	-0.81	0.95	-2.36	0.75	22.43	0.96	20.85	24.02	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
E 0.40	7	2.70	0.74	1.48	3.91	-0.68	1.05	-2.41	1.04	22.35	0.97	20.76	23.94	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
T 0.50	7	2.67	0.81	1.33	4.00	-0.71	1.10	-2.51	1.09	22.33	0.96	20.76	23.91	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
U 0.60	7	2.65	0.85	1.26	4.04	-0.69	1.05	-2.40	1.03	22.34	0.96	20.74	23.88	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
R 0.70	7	2.62	0.88	1.18	4.06	-0.67	0.96	-2.24	0.89	22.28	0.96	20.70	23.86	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
N 0.80	7	2.61	0.88	1.17	4.06	-0.76	0.95	-2.32	0.80	22.32	1.04	20.63	24.02	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
W 0.90	7	2.64	0.87	1.22	4.06	-0.76	0.98	-2.76	0.85	22.35	1.06	20.62	24.08	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
U 1.00	7	2.71	0.85	1.32	4.10	-0.73	0.99	-2.36	0.89	22.36	1.05	20.65	24.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07

LANDMARK - LT ALCOMION (5)

TIME	SAMPLE	CO-ORDINATE - X					CO-ORDINATE - Y					CO-ORDINATE - Z					CO-ORDINATE -				
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	S 7	0.41	0.75	-1.64	0.82	7.30	0.91	5.80	8.79	22.44	1.11	20.59	24.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
O .0	7	0.60	0.69	-1.72	0.53	7.03	0.73	5.85	8.45	22.52	1.11	20.59	24.34	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
F 0.20	7	0.79	0.69	-1.91	0.34	7.03	0.77	5.77	8.29	22.52	1.10	20.81	24.43	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
O 0.30	7	0.88	0.68	-2.00	0.24	7.02	0.82	5.67	8.36	22.70	1.06	20.96	24.43	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
R 0.40	7	0.82	0.66	-1.90	0.26	7.06	0.84	5.69	8.44	22.70	1.03	21.10	24.47	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
R 0.50	7	0.73	0.59	-1.69	0.23	7.08	0.82	5.75	8.42	22.83	1.00	21.19	24.47	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
A 0.60	7	0.70	0.56	-1.62	0.24	7.08	0.79	5.79	8.37	22.82	1.05	21.09	24.55	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
R 0.70	7	0.69	0.57	-1.62	0.24	7.05	0.74	5.83	8.34	22.83	1.04	21.08	24.60	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
D 0.80	7	0.64	0.53	-1.51	0.24	7.05	0.74	5.84	8.27	22.90	1.03	21.21	24.58	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
O 0.90	7	0.46	0.59	-1.42	0.50	6.99	0.74	5.77	8.21	22.92	1.04	21.22	24.63	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
T 1.00	7	0.27	0.68	-1.39	0.85	6.93	0.77	5.67	8.19	22.93	1.08	21.15	24.70	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
O .0	7	-0.27	0.68	-1.39	0.85	6.95	0.71	5.80	8.11	22.84	1.09	21.06	24.62	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
O .10	7	-0.29	0.68	-1.40	0.83	6.95	0.65	5.88	8.02	22.77	1.10	20.96	24.58	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
O .20	7	-0.27	0.73	-1.47	0.93	6.95	0.65	5.88	8.02	22.57	1.06	20.92	24.41	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
O .30	7	-0.32	0.80	-1.63	0.99	6.95	0.71	5.84	8.17	22.55	1.01	20.90	24.20	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
E 0.40	7	-0.45	0.80	-1.77	0.86	7.00	0.71	5.80	8.42	22.54	1.00	20.85	24.14	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
T 0.50	7	-0.46	0.86	-1.88	0.96	7.13	0.89	5.68	8.59	22.49	1.05	20.78	24.21	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
U 0.60	7	-0.49	0.80	-1.80	0.82	7.13	0.87	5.68	8.55	22.51	1.05	20.79	24.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
R 0.70	7	-0.49	0.72	-1.67	0.68	7.11	0.87	5.71	8.51	22.50	1.00	20.86	24.14	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
N 0.80	7	-0.56	0.57	-1.49	0.37	7.11	0.85	5.76	8.63	22.45	1.04	20.76	24.15	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
O 0.90	7	-0.53	0.59	-1.50	0.43	7.19	0.88	5.76	8.60	22.44	1.11	20.59	24.24	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
U 1.00	7	-0.41	0.75	-1.64	0.82	7.30	0.91	5.80	8.79	22.44	1.11	20.59	24.24	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93

LANDMARK - LT GRIP CENTER (17)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE, N	18.23	0.69	17.11	19.36	10.02	0.45	9.29	10.75	12.54	0.36	12.05	13.24	0.0	0.0	0.0	0.0	
W	0..0	4	18.26	0.59	17.30	19.22	9.19	0.60	8.80	10.78	14.78	0.63	13.75	15.81	2.15	2.15	2.15	2.15
F	0..10	4	18.45	0.51	17.60	19.29	9.65	0.66	8.56	10.46	16.47	1.40	14.18	18.77	1.71	1.71	1.71	1.71
R	0..20	5	18.45	0.45	18.09	19.56	9.62	0.51	8.77	10.46	18.53	1.43	16.19	20.87	2.09	2.09	2.09	2.09
O	0..30	6	18.82	0.45	19.27	19.71	9.63	0.28	9.17	10.08	20.35	1.21	18.37	22.34	5.95	5.95	5.95	5.95
R	0..40	7	19.27	0.26	18.84	19.71	9.63	0.45	8.89	10.36	22.08	1.13	20.23	23.94	1.88	1.88	1.88	1.88
W	0..50	7	19.31	0.91	18.32	21.90	9.62	0.45	8.89	10.36	22.08	1.13	20.23	23.94	1.81	1.81	1.81	1.81
A	0..60	7	20.57	0.81	19.23	21.90	9.80	0.40	9.15	10.45	22.56	0.85	21.16	23.95	1.55	1.55	1.55	1.55
R	0..70	7	21.30	0.67	20.20	22.41	10.00	0.31	9.49	10.51	22.96	0.76	21.70	24.21	0.86	0.86	0.86	0.86
D	0..80	7	22.01	0.45	21.28	22.74	10.20	0.16	9.94	10.47	23.06	0.69	21.94	24.19	1.25	1.25	1.25	1.25
N	0..90	7	22.61	0.60	21.63	23.59	10.45	0.22	10.09	10.80	22.87	0.59	21.90	23.83	0.68	0.68	0.68	0.68
R	1..00	7	23.15	0.90	21.67	24.64	10.72	0.31	10.20	11.23	22.58	0.51	21.74	23.42	0.67	0.67	0.67	0.67
W	0..0	7	23.15	0.90	21.67	24.64	10.72	0.31	10.20	11.23	22.58	0.51	21.74	23.42	0.0	0.0	0.0	0.0
F	0..10	7	21.94	0.77	20.68	23.20	10.20	0.43	9.49	10.90	22.06	1.09	20.27	23.84	1.42	1.42	1.42	1.42
R	0..20	7	20.82	0.83	19.47	22.17	9.82	0.64	8.78	10.86	21.25	1.54	18.73	23.77	1.43	1.43	1.43	1.43
O	0..30	7	19.95	0.90	18.48	21.43	9.75	0.58	8.81	10.70	19.62	2.01	16.90	22.44	1.85	1.85	1.85	1.85
E	0..40	7	19.13	1.24	17.11	21.16	9.62	0.63	8.58	10.66	17.78	1.48	14.48	21.08	2.02	2.02	2.02	2.02
T	0..50	7	19.06	0.91	17.56	20.56	9.53	0.72	8.35	10.71	16.73	1.49	14.30	19.17	1.06	1.06	1.06	1.06
U	0..60	6	19.38	1.01	17.42	20.73	9.46	0.70	8.32	10.60	15.34	1.26	13.24	17.38	1.42	1.42	1.42	1.42
R	0..70	6	18.90	0.87	17.47	20.33	9.52	0.67	8.43	10.61	14.39	0.96	12.82	15.97	0.94	0.94	0.94	0.94
N	0..80	6	18.71	0.67	17.61	19.81	9.64	0.71	8.47	10.80	13.72	0.74	12.51	14.93	0.71	0.71	0.71	0.71
O	0..90	4	18.37	0.71	17.21	19.53	9.95	0.53	9.08	10.81	13.08	0.55	12.18	13.98	0.78	0.78	0.78	0.78
R	1..00	4	18.23	0.69	17.11	19.36	10.02	0.45	9.29	10.75	12.54	0.36	12.05	13.24	0.47	0.47	0.47	0.47

200

LANDMARK - LT TROCHANTER (19)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE, N	4.13	0.37	5.35	6.66	0.97	0.97	8.25	3.86	3.33	4.39	0.32	3.33	4.40	0.10	0.10	0.10	0.10
W	0..0	4	4.74	0.44	3.99	5.29	6.65	0.91	5.17	8.14	3.86	0.32	3.33	4.41	0.08	0.08	0.08	0.08
F	0..10	7	4.64	0.50	5.53	6.43	6.66	0.89	5.20	8.12	3.87	0.33	3.33	4.40	0.03	0.03	0.03	0.03
R	0..20	7	4.55	0.72	3.36	5.72	6.64	0.91	5.15	8.12	3.88	0.32	3.35	4.42	0.07	0.07	0.07	0.07
O	0..30	7	4.53	0.93	3.00	6.06	6.58	0.55	5.03	8.13	3.89	0.33	3.33	4.42	0.03	0.03	0.03	0.03
R	0..40	7	4.53	0.93	3.00	6.16	6.52	1.00	4.88	8.16	3.91	0.35	3.33	4.48	0.06	0.06	0.06	0.06
W	0..50	7	4.52	0.96	2.99	6.12	6.59	0.98	4.98	8.20	3.88	0.33	3.33	4.42	0.08	0.08	0.08	0.08
R	0..60	7	4.53	0.76	3.33	5.82	6.64	0.99	5.02	8.27	3.85	0.31	3.35	4.36	0.07	0.07	0.07	0.07
R	0..70	7	4.53	0.76	3.33	5.82	6.64	0.99	5.02	8.27	3.85	0.27	3.39	4.29	0.03	0.03	0.03	0.03
D	0..80	7	4.53	0.60	3.59	5.56	6.67	0.90	5.20	8.14	3.84	0.27	3.39	4.29	0.03	0.03	0.03	0.03
O	0..90	7	4.53	0.47	3.80	5.36	6.73	0.75	7.97	8.22	3.84	0.25	3.41	4.24	0.06	0.06	0.06	0.06
R	1..00	7	4..63	0.38	4.00	5.25	6.78	0.66	5.70	7.86	3.78	0.28	3.33	4.23	0.05	0.05	0.05	0.05
W	0..0	7	4..63	0.38	4.00	5.25	6.78	0.66	5.70	7.86	3.78	0.28	3.33	4..23	0..0	0..0	0..0	0..0
F	0..10	7	4..73	0..41	4..05	5..41	6..67	0..76	5..40	7..95	3..81	0..27	3..37	4..25	0..15	0..15	0..15	0..15
R	0..20	7	4..80	0..48	4..02	5..58	6..59	0..88	5..16	8..03	3..85	0..29	3..38	4..32	0..25	0..25	0..25	0..25
R	0..30	7	4..75	0..61	3..76	5..75	6..57	0..92	5..05	8..08	3..87	0..31	3..36	4..39	0..06	0..06	0..06	0..06
E	0..40	7	4..68	0..56	3..77	5..59	6..59	0..85	5..15	7..99	3..85	0..29	3..38	4..32	0..45	0..45	0..45	0..45
T	0..50	7	4..67	0..46	3..91	5..42	6..63	0..77	5..38	7..59	3..85	0..27	3..38	4..32	0..05	0..05	0..05	0..05
U	0..60	7	4..63	0..46	3..87	5..8	6..77	0..62	5..76	7..79	3..85	0..27	3..41	4..30	0..14	0..14	0..14	0..14
R	0..70	7	4..57	0..45	3..84	5..30	6..87	0..57	5..93	7..81	3..85	0..28	3..42	4..32	0..12	0..12	0..12	0..12
N	0..80	7	4..49	0..49	3..68	5..28	6..75	0..70	5..59	7..90	3..87	0..28	3..42	4..33	0..15	0..15	0..15	0..15
N	0..90	7	4..58	0..42	3..89	5..26	6..67	0..82	5..33	8..01	3..86	0..30	3..38	4..35	0..12	0..12	0..12	0..12
R	1..00	7	4..74	0..37	4..13	5..35	6..66	0..57	5..07	8..25	3..86	0..32	3..33	4..39	0..17	0..17	0..17	0..17

LANDMARK - LT KNEE TOP

(21)

TIME	SAMPLE T SIZE, N	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			DISTANCE MOVED CU4
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	
0.0	6	20.38	0.62	19.37	21.40	5.92	0.94	7.47	11.54	1.28	13.64
F	6	20.37	0.69	19.23	21.51	5.90	0.95	4.34	7.47	1.30	13.68
F	0.20	20.35	0.72	19.16	21.54	5.72	0.99	4.09	7.35	1.20	13.50
R	0.30	20.29	0.73	19.09	21.48	5.68	0.98	4.07	7.28	1.19	13.48
R	0.40	20.26	0.70	19.12	21.41	5.65	0.91	4.17	7.14	1.19	13.49
W	0.50	20.28	0.71	19.11	21.44	5.65	0.84	4.27	7.03	1.20	13.49
A	0.60	20.19	0.77	18.92	21.66	5.61	0.88	4.26	7.05	1.23	13.53
R	0.70	20.12	0.83	18.76	21.49	5.58	0.92	4.07	7.10	1.25	13.59
D	0.80	20.13	0.80	18.82	21.45	5.61	0.94	4.06	7.16	1.22	13.62
N	0.90	20.19	0.71	19.03	21.35	5.62	0.98	4.02	7.22	1.21	13.56
1.00	7	20.26	0.64	19.21	21.30	5.59	1.02	3.93	7.26	1.22	13.53
0.0	7	20.26	0.64	19.21	21.30	5.59	1.02	3.93	7.26	1.22	13.53
0.10	7	20.26	0.69	19.14	21.39	5.57	0.97	3.97	7.17	1.25	13.51
0.20	7	20.32	0.73	19.12	21.52	5.57	0.53	4.05	7.09	1.19	13.51
R	0.30	20.38	0.80	19.06	21.70	5.63	0.91	4.14	7.12	1.20	13.47
E	0.40	20.36	0.72	19.17	21.54	5.69	0.91	4.21	7.17	1.20	13.42
T	0.50	20.36	0.56	19.44	21.28	5.70	0.87	4.27	7.13	1.24	13.42
U	0.60	20.28	0.70	19.13	21.42	5.64	0.94	4.10	7.18	1.21	13.43
R	0.70	20.39	0.79	18.79	21.40	5.49	1.04	3.79	7.20	1.20	13.45
N	0.80	20.02	1.10	18.23	21.82	5.60	1.05	3.54	7.65	1.19	13.45
0.90	6	20.25	0.73	19.05	21.46	5.81	1.03	4.13	7.49	1.27	13.68
1.00	6	20.38	0.62	19.37	21.40	5.92	0.94	4.38	7.47	1.28	13.64

LANDMARK - LT SHOULDER CENTER

(23)

TIME	SAMPLE T SIZE, N	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			DISTANCE MOVED CU4
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	
0.0	6	0.97	0.83	-0.39	2.34	7.19	1.16	5.29	9.09	20.39	1.35
0.10	6	0.70	0.58	-0.25	1.65	7.23	0.96	5.64	8.81	20.46	1.28
F	0.20	0.60	0.45	-0.14	1.33	7.38	0.80	6.06	8.70	20.55	1.14
D	0.30	0.58	0.39	-0.06	1.21	7.47	0.86	6.07	8.88	20.57	1.13
R	0.40	0.67	0.44	-0.05	1.39	7.45	0.93	5.92	8.98	20.69	1.06
W	0.50	0.76	0.53	-0.11	1.63	7.40	1.00	5.75	9.05	20.84	0.95
A	0.60	1.00	0.47	-0.24	1.77	7.45	0.99	5.82	9.07	20.93	0.95
R	0.70	1.10	0.48	-0.41	2.00	7.51	1.05	5.80	9.23	21.92	0.93
D	0.80	1.32	0.50	-0.50	2.13	7.55	1.09	5.77	9.33	21.14	0.88
N	0.90	1.54	0.49	-0.73	2.34	7.43	1.19	5.47	9.38	21.43	0.77
1.00	6	1.74	0.46	-0.98	2.50	7.36	1.25	5.31	9.42	21.51	0.81
0.0	6	1.74	0.46	-0.98	2.50	7.36	1.25	5.31	9.42	21.51	0.81
0.10	6	1.56	0.34	1.01	2.12	7.12	1.13	5.26	8.97	21.29	0.92
0.20	7	1.26	0.33	0.72	1.80	7.05	0.97	5.66	8.64	20.39	1.10
R	0.30	1.12	0.61	0.13	2.12	7.15	0.90	5.68	8.62	20.75	1.05
E	0.40	1.00	0.54	0.12	1.88	7.34	0.99	5.71	8.97	20.59	1.06
T	0.50	0.75	0.48	-0.04	1.55	7.40	1.06	5.66	9.14	20.52	0.97
U	0.60	0.69	0.66	-0.40	1.77	7.39	1.14	5.53	9.26	20.53	1.05
R	0.70	0.70	0.69	-0.43	1.83	7.30	1.08	5.54	9.07	20.52	1.09
N	0.80	0.77	0.55	-0.14	1.67	7.20	0.94	5.65	8.74	20.52	1.10
0.90	6	0.88	0.65	-0.18	1.95	7.14	1.06	5.40	8.87	20.43	1.27
1.00	6	0.97	0.83	-0.39	2.34	7.19	1.16	5.29	9.09	20.39	1.35

LANDMARK - LT ELBOW CENTER (25)

TIME T	SAMPLE SIZE,N	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			DISTANCE MOVED		
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	INCR	CUH	
0.0	5	5.86	0.79	4.57	7.15	1.21.2	0.76	10.88	1.3.36	12.79	1.60	10.17	15.42
0.10	5	5.90	0.48	5.45	6.69	12.19	0.67	11.03	13.33	1.38	11.06	15.60	0.54
F 0.20	6	6.17	0.44	5.45	6.88	12.34	0.56	11.41	13.27	1.3.75	1.11	11.93	1.25
O 0.30	6	6.64	0.47	5.87	7.41	12.40	0.41	11.73	13.06	14.38	1.02	12.70	16.06
O 0.40	6	7.31	0.58	6.37	8.26	12.38	0.29	11.90	12.86	15.15	0.98	13.54	1.79
W 0.50	6	8.01	0.74	6.80	9.22	12.37	0.38	11.03	15.95	1.01	14.29	17.61	1.06
A 0.60	6	8.64	0.72	7.47	9.82	12.28	0.60	11.29	13.27	16.62	0.91	15.14	18.11
R 0.70	6	9.25	0.69	8.12	10.37	12.15	0.79	10.86	13.44	17.27	0.78	16.00	18.55
D 0.80	6	9.75	0.61	8.79	10.74	11.93	0.87	10.50	11.37	17.19	0.67	16.69	18.88
O 0.90	6	10.10	0.40	9.44	10.75	11.77	1.01	10.12	13.43	18.13	0.66	17.06	19.21
1.C0	6	10.38	0.21	10.05	10.72	11.65	1.18	9.71	13.58	18.45	0.69	17.32	19.58
0.0	6	10.38	0.21	10.05	10.72	11.65	1.18	9.71	13.58	18.45	0.69	17.32	19.58
0.10	6	9.57	0.33	9.04	10.10	11.98	1.17	10.05	13.90	17.22	0.82	15.87	19.58
K 0.20	6	8.80	0.53	7.93	9.68	12.37	1.37	10.11	14.62	16.05	1.11	14.24	17.87
O 0.30	5	7.91	0.59	6.94	8.88	12.14	1.07	10.38	13.91	14.98	1.32	12.81	17.14
E 0.40	5	7.09	0.54	6.20	7.99	12.28	1.16	10.39	14.18	14.22	1.45	11.84	16.60
T 0.50	5	6.58	0.60	5.59	7.57	12.30	1.16	10.40	14.20	13.72	1.70	10.94	16.51
U 0.60	5	6.20	0.62	5.18	7.21	12.32	1.20	10.35	14.29	13.45	1.67	10.72	16.19
R 0.70	5	6.02	0.59	5.06	6.98	12.33	1.17	10.41	14.24	13.24	1.62	10.59	15.90
N 0.80	5	5.96	0.65	4.89	7.03	12.27	1.15	10.39	14.16	13.09	1.63	10.41	15.77
O 0.90	5	5.90	0.68	4.78	7.02	12.17	0.93	10.95	13.69	12.95	1.61	10.30	15.59
1.00	5	5.86	0.79	4.57	7.15	12.12	0.76	10.88	13.36	12.79	1.60	10.17	15.42

LANDMARK - LT WRIST CENTER (27)

TIME T	SAMPLE SIZE,N	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			DISTANCE MOVED		
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	INCR	CUH	
0.0	4	15.34	0.14	15.10	15.58	10.86	0.81	9.54	12.19	11.98	0.65	10.91	13.05
0.10	4	15.12	0.28	14.66	15.58	10.86	0.64	9.80	11.91	13.55	1.03	11.95	15.34
F 0.20	5	15.20	0.33	15.33	15.75	10.80	0.49	9.99	11.61	15.22	1.35	13.01	17.43
O 0.30	6	15.77	0.45	15.03	16.51	10.57	0.42	9.89	11.25	16.97	1.47	14.76	19.18
R 0.40	6	16.54	0.65	15.48	17.61	10.55	0.35	9.97	11.25	18.27	1.29	16.15	20.39
W 0.50	7	17.46	0.91	15.95	18.95	10.51	0.55	9.62	11.41	19.57	1.14	17.70	21.45
A 0.60	7	18.14	0.90	16.67	19.61	10.62	0.48	9.83	11.41	20.17	0.95	18.62	20.92
R 0.70	7	18.76	0.86	17.34	20.18	10.77	0.45	10.04	11.50	20.59	0.89	19.24	21.14
D 0.80	7	19.25	0.64	18.20	20.31	10.99	0.52	10.14	11.83	20.90	0.87	19.48	22.32
O 0.90	7	19.75	0.44	19.03	20.81	11.11	0.58	10.17	12.06	20.89	0.84	19.51	22.27
1.00	7	20.24	0.35	19.66	20.81	11.20	0.62	10.19	12.22	20.84	0.82	19.49	22.18
0.0	7	20.24	0.35	19.66	20.81	11.20	0.62	10.19	12.22	20.84	0.82	19.49	22.18
0.10	7	19.20	0.46	18.44	19.96	10.97	0.54	10.08	11.86	20.84	1.26	18.02	22.15
0.20	7	18.18	0.72	17.00	19.37	10.78	0.59	9.82	11.75	19.25	1.72	16.43	22.07
R 0.30	6	17.23	0.93	15.71	18.76	10.54	0.49	9.74	11.34	18.10	2.03	14.78	21.43
E 0.40	4	16.02	1.12	14.19	17.86	10.62	0.42	9.92	11.32	17.22	2.45	13.21	21.24
T 0.50	4	15.47	0.70	14.32	16.63	10.66	0.82	9.31	12.01	15.77	2.41	11.81	19.74
U 0.60	4	15.31	0.49	14.50	16.12	10.74	1.03	9.04	12.44	14.72	2.28	10.99	18.45
R 0.70	4	15.27	0.33	14.72	15.82	10.76	1.11	8.94	12.58	13.83	1.97	10.61	17.06
N 0.80	4	15.24	0.28	14.78	15.70	10.75	0.98	9.13	12.36	13.09	1.64	10.39	15.76
O 0.90	4	15.28	0.17	15.00	15.56	10.79	0.86	9.38	12.21	12.52	1.14	10.65	14.40
1.00	4	15.34	0.14	15.10	15.58	10.86	0.81	9.54	12.19	11.98	0.65	13.05	11.01

MOVEMENT: RIGHT HAND MOVES FROM STICK CONTROLLER AT +20.0, 0.0, +12.4 TO HATCH RELEASE CONTROLLER AT +13.0, -13.0, +23.0 AND RETURNS. THIS MOVEMENT IS PRECEDED BY LEFT HAND MOVING FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO STICK CONTROLLER AND IS FOLLOWED BY LEFT HAND RETURNING BACK TO STICK CONTROLLER.

MOTION NUMBER - 11150
BACK ANGLE - 13

SUB-MOVEMENT

TIME DATA		
MEAN	STD DEV	RANGE
0.84	0.15	0.60 TO 1.00 SECS.
0.74	0.15	0.60 TO 1.00 SECS.

		LANDMARK - NASION										(1)											
		X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					X - CO-ORDINATE						
TIME	SAMPLE	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
0.0	T	6.85	1.91	3.072	9.08	-0.24	0.79	-1.53	1.06	29.46	1.09	27.68	31.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	I	7	6.51	1.50	4.05	8.97	-2.15	1.24	-4.18	-0.12	29.57	1.33	27.39	31.74	1.95	1.95	0.0	0.0	0.0	0.0	0.0	0.0	
U	1.0	7	6.51	1.63	3.85	9.18	-2.49	1.18	-4.42	-0.56	29.52	1.21	27.58	31.56	0.34	0.34	2.29	2.29	0.0	0.0	0.0	0.0	
F	0.20	7	6.56	1.57	3.98	9.13	-2.49	1.12	-4.19	-0.52	29.54	1.17	27.72	31.55	0.16	0.16	2.44	2.44	0.0	0.0	0.0	0.0	
R	0.30	7	6.45	1.64	3.76	9.14	-2.37	1.00	-4.01	-0.74	29.63	1.06	27.90	31.37	0.11	0.11	2.55	2.55	0.0	0.0	0.0	0.0	
R	0.40	7	6.36	1.89	3.26	9.46	-2.32	0.82	-3.66	-0.99	29.50	0.99	27.98	31.23	0.11	0.11	2.65	2.65	0.0	0.0	0.0	0.0	
W	0.50	7	6.34	1.83	3.33	9.35	-2.32	0.77	-3.58	-1.06	29.59	0.94	28.05	31.14	0.02	0.02	2.68	2.68	0.0	0.0	0.0	0.0	
A	0.60	7	6.34	1.83	3.26	9.18	-2.08	0.85	-3.48	-0.68	29.70	0.99	28.08	31.32	0.29	0.29	2.97	2.97	0.0	0.0	0.0	0.0	
R	0.70	7	6.22	1.81	3.36	9.02	-2.00	0.97	-3.59	-0.41	29.76	1.06	28.02	31.49	0.10	0.10	3.07	3.07	0.0	0.0	0.0	0.0	
D	0.80	7	6.25	1.72	3.40	9.10	-1.88	1.08	-3.65	-0.10	29.77	1.06	28.03	31.50	0.13	0.13	3.21	3.21	0.0	0.0	0.0	0.0	
O	0.90	7	6.25	1.74	3.49	9.18	-1.91	0.98	-3.52	-0.29	29.52	1.07	27.89	31.40	0.15	0.15	3.36	3.36	0.0	0.0	0.0	0.0	
I	1.00	7	6.34	1.74	3.49	9.18	-1.91	0.98	-3.52	-0.29	29.52	1.07	27.89	31.40	0.15	0.15	3.36	3.36	0.0	0.0	0.0	0.0	
		LANDMARK - CERVICALE										(2)											
TIME	SAMPLE	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
0.0	T	7	6.71	1.72	3.90	9.54	-0.67	0.98	-2.27	0.93	29.57	1.10	27.78	31.37	1.30	1.30	1.30	1.30	0.0	0.0	0.0	0.0	
0.10	I	7	6.86	1.75	3.99	9.72	-0.24	0.96	-1.79	1.36	29.53	1.15	27.64	31.42	0.48	0.48	1.77	1.77	0.0	0.0	0.0	0.0	
R	0.30	7	6.70	1.81	3.73	9.66	-0.13	1.08	-1.90	1.63	29.54	1.17	27.60	31.43	0.18	0.18	1.95	1.95	0.0	0.0	0.0	0.0	
E	0.40	7	6.69	1.86	3.64	9.74	-0.20	1.08	-1.93	1.53	29.49	1.19	27.54	31.43	0.07	0.07	2.03	2.03	0.0	0.0	0.0	0.0	
T	0.50	7	6.73	1.77	3.82	9.64	-0.20	0.98	-1.80	1.40	29.49	1.23	27.48	31.50	0.04	0.04	2.07	2.07	0.0	0.0	0.0	0.0	
U	0.60	7	6.71	1.72	3.89	9.52	-0.08	0.85	-1.47	1.31	29.61	1.17	27.70	31.53	0.18	0.18	2.25	2.25	0.0	0.0	0.0	0.0	
R	0.70	7	6.72	1.82	3.74	9.71	-0.16	0.70	-1.31	0.99	29.62	1.18	27.69	31.56	0.09	0.09	2.33	2.33	0.0	0.0	0.0	0.0	
N	0.80	7	6.83	1.81	3.86	9.80	-0.12	0.59	-1.09	0.64	29.53	1.11	27.72	31.35	0.15	0.15	2.48	2.48	0.0	0.0	0.0	0.0	
O	0.90	7	6.83	1.84	3.81	9.85	-0.10	0.64	-1.15	0.96	29.48	1.08	27.72	31.25	0.06	0.06	2.54	2.54	0.0	0.0	0.0	0.0	
I	1.00	7	6.85	1.91	3.72	9.98	-0.24	0.79	-1.53	1.06	29.48	1.09	27.68	31.27	0.14	0.14	2.68	2.68	0.0	0.0	0.0	0.0	
		LANDMARK - CERVICALE										(2)											
TIME	SAMPLE	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
0.0	T	7	1.07	1.26	3.14	1.00	0.40	0.96	-1.17	1.97	23.50	1.15	21.78	25.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	I	7	0.70	0.96	2.28	0.88	0.55	1.03	-1.14	2.24	23.74	1.19	21.78	25.69	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	
F	0.20	7	0.75	0.95	2.31	0.80	0.43	0.86	-0.99	1.85	23.78	1.11	21.97	25.60	0.14	0.14	0.54	0.54	0.0	0.0	0.0	0.0	
O	0.30	7	0.74	0.93	2.27	0.79	0.59	0.68	-0.53	0.53	23.82	1.03	22.14	25.50	0.16	0.16	0.71	0.71	0.0	0.0	0.0	0.0	
R	0.40	7	0.90	0.80	2.31	0.51	0.64	0.76	-0.61	1.88	23.78	1.12	21.95	25.62	0.17	0.17	0.71	0.71	0.0	0.0	0.0	0.0	
W	0.50	7	0.87	1.21	2.84	1.11	0.56	0.76	-0.69	1.81	23.81	1.13	21.95	25.66	0.09	0.09	0.96	0.96	0.0	0.0	0.0	0.0	
A	0.60	7	0.96	1.14	2.83	0.91	0.88	0.88	-0.53	2.34	23.74	1.01	22.09	25.40	0.36	0.36	1.32	1.32	0.0	0.0	0.0	0.0	
R	0.70	7	0.88	0.99	2.51	0.74	1.25	0.95	-0.31	2.80	23.77	1.11	21.95	25.59	0.35	0.35	1.68	1.68	0.0	0.0	0.0	0.0	
D	0.80	7	0.94	0.83	2.31	0.43	1.24	1.02	-0.44	2.92	23.83	1.15	21.94	25.72	0.08	0.08	1.76	1.76	0.0	0.0	0.0	0.0	
O	0.90	7	0.86	0.87	2.28	0.56	1.21	0.93	-0.32	2.75	23.92	1.17	21.99	25.84	0.12	0.12	1.88	1.88	0.0	0.0	0.0	0.0	
I	1.00	7	0.87	0.95	2.43	0.69	1.19	0.96	-0.38	2.77	23.84	1.14	21.97	25.71	0.08	0.08	1.88	1.88	0.0	0.0	0.0	0.0	
		LANDMARK - CERVICALE										(2)											
TIME	SAMPLE	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
U	0.60	7	0.90	1.03	1.13	0.88	0.82	1.05	0.75	-0.18	2.27	23.89	1.01	22.23	25.47	0.29	0.29	0.34	0.34	0.0	0.0	0.0	0.0
R	0.70	7	0.82	1.14	2.70	1.05	0.82	0.86	1.07	2.62	23.94	1.06	22.16	25.65	0.20	0.20	0.55	0.55	0.0	0.0	0.0	0.0	
N	0.80	7	0.83	1.12	2.66	1.00	0.53	1.10	-1.28	2.92	23.80	1.06	22.05	25.54	0.15	0.15	1.15	1.15	0.0	0.0	0.0	0.0	
O	0.90	7	1.03	1.14	2.90	0.85	0.35	1.16	-1.56	2.25	23.70	1.09	21.92	25.48	0.28	0.28	1.53	1.53	0.0	0.0	0.0	0.0	
I	1.07	7	1.26	3.14	2.43	0.69	0.95	0.40	-1.17	1.97	23.96	1.15	21.97	25.54	0.08	0.08	1.64	1.64	0.0	0.0	0.0	0.0	

LANDMARK - SUPRASENTRAL (3)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	3.06	1.95	-0.13	6.26	0.38	1.14	-1.49	2.24	22.62	1.16	20.71	24.52	0.0	0.0	5 PCT	95 PCT
0.10	F	3.33	1.82	0.35	6.32	0.35	1.15	-1.54	2.24	22.56	1.18	20.72	24.60	0.27	0.27	5 PCT	95 PCT
0.20	R	3.26	1.77	0.36	6.17	0.19	1.08	-1.58	1.97	22.72	1.13	20.87	24.58	0.18	0.45	5 PCT	95 PCT
0.30	D	3.15	1.77	0.25	6.05	0.29	0.98	-1.32	2.89	22.64	1.12	20.79	24.50	0.16	0.62	5 PCT	95 PCT
0.40	E	3.00	1.86	-0.05	6.04	0.34	1.19	-1.61	2.30	22.58	1.12	20.85	24.52	0.17	0.79	5 PCT	95 PCT
0.50	T	2.76	2.07	-0.64	6.16	0.49	1.55	-2.05	3.03	22.74	1.08	20.95	24.51	0.28	0.79	5 PCT	95 PCT
0.60	A	2.78	1.96	-0.43	5.99	0.58	1.53	-1.93	3.09	22.64	1.11	20.83	24.46	0.13	1.20	5 PCT	95 PCT
0.70	R	2.77	1.89	-0.32	5.87	0.62	1.36	-1.61	2.85	22.59	1.07	20.94	24.44	0.06	1.26	5 PCT	95 PCT
0.80	D	2.69	1.83	-0.31	5.68	0.64	1.23	-1.37	2.65	22.57	1.08	20.90	24.44	0.09	1.36	5 PCT	95 PCT
0.90	N	2.62	1.92	-0.24	5.77	0.58	1.24	-1.45	2.62	22.68	1.01	21.03	24.33	0.09	1.45	5 PCT	95 PCT
1.00	U	2.63	2.03	-0.70	5.96	0.53	1.26	-1.53	2.63	22.72	1.02	21.04	24.40	0.06	1.51	5 PCT	95 PCT

LANDMARK - RT ACRIGHUN (4)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	0.64	1.16	-2.54	-8.03	0.46	-8.79	-7.27	21.93	1.21	20.00	23.98	0.0	0.0	5 PCT	95 PCT	
0.10	F	0.46	1.19	-1.49	-2.41	-7.79	0.52	-8.64	-6.95	22.12	1.26	20.05	24.18	0.33	0.33	5 PCT	95 PCT
0.20	R	0.37	0.96	-1.21	-1.95	-7.82	0.50	-8.65	-6.99	22.27	1.27	20.19	24.34	0.17	0.50	5 PCT	95 PCT
0.30	D	0.12	0.74	-1.33	-1.09	-7.68	0.40	-8.34	-7.03	22.42	1.20	20.46	24.38	0.33	0.83	5 PCT	95 PCT
0.40	E	-0.23	0.79	-1.54	-1.07	-7.52	0.43	-8.23	-6.81	22.56	1.14	20.71	24.44	0.41	1.24	5 PCT	95 PCT
0.50	T	-0.58	0.92	-2.09	-0.92	-7.37	0.46	-8.12	-6.81	22.50	1.02	20.99	24.33	0.39	1.64	5 PCT	95 PCT
0.60	A	-0.46	1.77	-3.07	-2.74	-7.88	1.88	-10.95	-4.80	22.80	0.90	21.33	24.27	0.67	2.31	5 PCT	95 PCT
0.70	R	-0.67	1.04	-2.31	-0.98	-7.38	1.06	-9.12	-5.64	22.90	0.96	21.38	24.54	0.73	3.04	5 PCT	95 PCT
0.80	D	-1.01	0.76	-2.26	-0.23	-7.06	0.40	-7.71	-6.41	23.01	0.97	21.48	24.66	0.48	3.52	5 PCT	95 PCT
0.90	N	-0.32	0.95	-2.48	-0.63	-7.09	0.54	-7.93	-6.31	23.13	0.95	21.57	24.68	0.11	3.63	5 PCT	95 PCT
1.00	U	-0.94	0.94	-2.39	0.58	-7.15	0.55	-8.04	-6.26	23.08	0.98	21.48	24.69	0.07	3.70	5 PCT	95 PCT

LANDMARK - RT GRIP CENTER (16)

TIME	SAMPLE T	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	18.56	0.94	17.02	-1.92	0.47	2.69	-2.69	1.1	1.95	12.63	0.54	11.75	1.51	13.51	0.0	0.0
0.10	7	17.81	0.86	16.40	19.21	-2.63	0.42	-3.32	-1.1	1.95	12.54	1.14	10.73	1.47	14.47	1.04	1.04
F 0.20	7	17.17	1.31	15.02	19.32	-3.29	0.81	-4.61	-1.0	1.97	13.33	1.68	10.58	1.08	16.08	1.17	2.20
O 0.30	7	15.68	1.00	12.96	18.39	-4.20	1.33	-6.22	-2.0	2.02	14.91	2.69	10.40	1.40	19.23	2.30	4.50
R 0.40	7	13.19	1.54	10.66	15.72	-6.22	1.65	-8.93	-3.0	1.52	17.28	2.85	12.61	1.96	21.96	4.04	8.55
W 0.50	7	11.47	1.33	9.30	13.65	-8.64	1.76	-11.54	-5.75	19.58	1.94	16.50	2.87	22.87	3.62	12.36	
A 0.60	7	7.49	2.80	2.90	12.08	-14.08	3.14	-15.23	-8.94	24.01	2.71	19.56	2.46	28.46	8.01	20.37	
R 0.70	7	10.31	0.53	9.34	11.28	-13.49	1.09	-15.27	-11.70	22.13	0.42	21.44	2.82	23.44	3.44	23.81	
D 0.80	7	11.82	0.41	11.16	12.49	-14.43	0.95	-15.99	-12.87	21.77	0.23	21.39	2.15	1.82	2.56	25.63	
O 0.90	7	12.61	0.54	11.72	13.50	-14.37	0.61	-15.37	-13.37	21.69	0.21	21.34	2.04	0.80	2.64	26.43	
1.00	7	12.77	0.66	11.68	13.85	-14.27	0.37	-14.88	-13.66	21.70	0.33	21.15	2.24	0.18	2.61	26.61	
0.0	7	12.77	0.66	11.68	13.85	-14.27	0.37	-14.88	-13.66	21.70	0.33	21.16	2.24	0.0	0.0	0.0	
0.20	7	11.43	0.78	10.14	12.71	-13.41	0.81	-14.73	-12.09	21.34	0.17	21.56	2.11	1.00	1.60	1.60	
R 0.30	7	10.71	0.79	9.41	12.01	-11.50	1.26	-13.57	-9.43	21.54	0.55	20.74	2.53	2.05	3.65	3.65	
E 0.40	7	11.23	0.92	9.72	12.74	-9.05	2.34	-12.88	-5.21	20.79	1.52	18.20	2.20	2.68	6.32	6.32	
T 0.50	7	13.13	1.18	11.18	15.07	-6.22	3.43	-11.85	-0.60	18.81	1.99	15.55	2.07	3.89	10.21	10.21	
T 0.50	7	15.11	2.00	11.83	18.38	-5.56	1.68	-8.32	-2.15	17.44	2.00	13.76	2.74	2.74	12.95	12.95	
U 0.60	7	17.47	1.41	15.16	19.77	-3.54	1.46	-5.93	-2.15	17.44	1.48	12.01	1.87	4.05	17.00	17.00	
R 0.70	7	17.74	1.31	15.59	19.89	-3.11	1.25	-5.16	-1.05	13.76	1.53	11.25	1.28	0.65	17.85	17.85	
N 0.80	7	18.33	0.94	16.78	19.88	-2.40	0.61	-3.41	-1.40	12.99	0.95	14.55	1.20	1.20	19.05	19.05	
O 0.90	7	18.63	1.00	16.99	20.28	-1.96	0.49	-2.77	-1.15	12.64	0.77	11.37	1.91	0.64	19.69	19.69	
1.00	7	18.56	0.94	17.02	20.10	-1.92	0.47	-2.69	-1.15	12.53	0.54	11.75	1.51	0.08	19.76	19.76	

LANDMARK - RT TROCHANTER (18)

TIME	SAMPLE T	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	3.94	0.71	2.78	5.10	-7.61	0.78	-8.89	-6.33	3.92	0.64	2.87	4.98	0.0	0.0	0.0	0.0
0.10	7	3.98	0.65	2.92	5.04	-7.48	0.88	-8.92	-6.04	3.75	0.60	2.97	4.93	0.14	0.14	0.14	0.14
F 0.20	7	3.94	0.63	2.91	4.97	-7.78	0.80	-9.09	-6.47	3.98	0.56	3.06	4.89	0.30	0.44	0.44	0.44
O 0.30	7	3.93	0.63	2.89	4.97	-7.78	0.89	-9.23	-6.32	3.92	0.56	3.00	4.83	0.06	0.50	0.06	0.50
E 0.40	7	3.84	0.62	2.83	4.79	-7.59	0.79	-8.89	-6.29	3.92	0.57	2.99	4.85	0.21	0.71	0.21	0.71
W 0.50	7	4.04	0.72	2.88	5.19	-7.53	1.16	-9.43	-5.62	3.91	0.58	2.95	4.86	0.21	0.92	0.21	0.92
A 0.60	7	3.77	0.57	2.82	4.71	-7.66	0.82	-8.99	-6.32	3.92	0.58	3.00	4.83	0.30	1.22	0.30	1.22
R 0.70	7	3.93	0.85	2.54	7.55	-7.55	0.87	-8.98	-6.12	3.91	0.58	2.96	4.86	0.19	1.41	0.19	1.41
D 0.80	7	3.95	2.84	2.56	5.33	-7.58	0.85	-8.98	-6.18	3.92	0.58	2.97	4.87	0.03	1.45	0.03	1.45
O 0.90	7	3.99	0.73	2.82	5.18	-7.66	0.84	-9.04	-6.28	3.94	0.54	3.03	4.80	0.10	1.54	0.10	1.54
1.00	7	3.77	0.70	2.63	4.92	-7.64	1.03	-9.33	-5.94	3.95	0.54	2.97	4.74	0.23	1.77	0.23	1.77
0.0	7	3.77	0.70	2.63	4.92	-7.64	1.03	-9.33	-5.94	3.85	0.54	2.97	4.74	0.0	0.0	0.0	0.0
0.10	7	3.80	0.78	2.52	5.07	-7.55	0.80	-8.86	-6.23	3.93	0.55	3.02	4.83	0.12	0.12	0.12	0.12
0.20	7	3.85	0.71	2.70	5.01	-7.55	0.78	-8.83	-6.27	3.94	0.58	2.99	4.89	0.18	0.18	0.18	0.18
R 0.30	7	4.02	0.43	3.32	4.72	-7.60	0.89	-9.07	-6.14	3.88	0.57	2.95	4.81	0.19	0.20	0.19	0.20
E 0.40	7	4.12	0.37	3.52	4.73	-7.60	0.99	-9.22	-5.98	3.90	0.56	2.97	4.82	0.10	0.47	0.10	0.47
T 0.50	7	4.13	0.65	3.03	5.17	-7.50	0.90	-8.93	-6.03	3.95	0.58	3.00	4.90	0.11	0.58	0.11	0.58
U 0.60	7	4.13	0.83	2.76	5.49	-7.51	0.80	-8.83	-6.20	3.98	0.58	3.03	4.93	0.04	0.62	0.04	0.62
R 0.70	7	4.17	0.72	3.00	5.34	-7.60	0.84	-8.98	-6.22	3.97	0.59	3.01	4.94	0.0	0.72	0.0	0.72
N 0.80	7	3.97	0.68	2.86	5.08	-7.57	0.90	-9.05	-6.09	3.97	0.60	2.98	4.96	0.20	0.92	0.20	0.92
O 0.90	7	3.92	0.60	2.93	4.90	-7.59	0.82	-8.93	-6.24	3.94	0.62	2.97	4.93	0.08	1.00	0.08	1.00
1.00	7	3.94	0.71	2.78	5.10	-7.61	0.78	-8.89	-6.33	3.92	0.64	2.97	4.93	0.03	1.03	0.03	1.03

LANDMARK - RT KNEE TOP (20)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)			(- - - Y - CO-ORDINATE - - -)			(- - - Z - CO-ORDINATE - - -)			
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	
0.0	T	19.37	0.54	18.49	20.25	-6.82	1.04	-8.53	-5.11	11.72	0.95
0.10	F	19.43	0.28	18.98	19.68	-6.64	1.10	-8.45	-4.83	11.57	0.77
0.20	R	19.45	0.35	18.87	20.03	-6.78	1.11	-8.60	-4.76	11.71	0.85
0.30	O	19.42	0.55	18.51	20.32	-6.75	1.12	-8.58	-4.92	11.71	0.92
0.40	R	19.29	0.62	18.27	20.30	-6.62	1.10	-8.43	-4.92	11.72	0.87
0.50	W	19.53	0.68	18.40	20.65	-6.43	1.19	-8.37	-4.58	11.74	0.89
0.60	R	19.42	0.49	18.62	20.23	-6.71	0.99	-8.34	-5.08	11.84	1.07
0.70	R	19.37	0.54	18.48	20.25	-6.58	1.11	-8.41	-4.76	11.80	0.94
0.80	D	19.33	0.63	18.30	20.36	-6.58	1.18	-8.52	-4.63	11.72	0.87
0.90	U	19.31	0.69	18.18	20.45	-6.63	1.17	-8.55	-4.70	11.74	0.89
1.00	T	19.25	0.70	18.09	20.40	-6.66	1.14	-8.53	-4.80	11.76	0.94
0.0	T	19.25	0.70	18.09	20.40	-6.66	1.14	-8.53	-4.80	11.76	0.94
0.10	F	19.30	0.80	17.98	20.61	-6.59	1.09	-8.38	-4.80	11.73	0.90
0.20	R	19.32	0.83	17.97	20.68	-6.62	1.04	-8.33	-4.92	11.77	0.90
0.30	O	19.38	0.71	18.21	20.55	-6.72	0.94	-8.26	-5.18	11.74	0.88
0.40	E	19.42	0.64	18.37	20.46	-6.77	0.91	-8.26	-5.26	11.57	0.86
0.50	T	19.47	0.49	18.67	20.27	-6.87	0.88	-8.31	-5.42	11.74	0.89
0.60	U	19.47	0.38	18.81	20.07	-6.93	0.85	-8.33	-5.54	11.75	0.89
0.70	R	19.44	0.45	18.64	20.11	-6.91	0.89	-8.36	-5.79	11.79	0.91
0.80	N	19.38	0.50	18.56	20.21	-6.93	0.94	-8.47	-5.38	11.70	0.91
0.90	T	19.37	0.55	18.47	20.27	-6.85	0.99	-8.47	-5.23	11.67	0.93
1.00	J	19.37	0.54	18.49	20.25	-6.82	1.04	-8.53	-5.11	11.72	0.95

LANDMARK - RT SHOULDER CENTER (22)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)			(- - - Y - CO-ORDINATE - - -)			(- - - Z - CO-ORDINATE - - -)			
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	
0.0	T	1.76	0.02	3.43	-7.35	0.44	-8.23	-6.80	19.13	0.89	
0.10	F	1.57	1.00	-0.06	3.20	-7.35	0.45	-8.09	-6.61	20.04	0.80
0.20	R	1.56	0.76	0.31	2.82	-7.37	0.48	-8.15	-6.59	20.59	0.88
0.30	O	1.34	0.59	0.37	2.31	-7.31	0.41	-7.98	-6.63	20.66	0.83
0.40	E	0.87	0.75	-0.36	2.10	-7.34	0.47	-8.10	-6.58	20.41	0.79
0.50	W	0.65	0.76	-0.60	1.90	-7.16	0.51	-8.00	-6.32	20.61	0.61
0.60	A	0.25	0.88	-1.19	1.68	-7.43	0.34	-7.99	-6.87	20.57	0.59
0.70	D	0.06	1.23	-1.35	1.23	-7.33	0.36	-7.93	-6.53	20.97	0.57
0.80	J	0.27	0.74	-0.95	1.48	-7.27	0.45	-8.01	-6.53	21.07	0.53
0.90	T	0.42	0.80	-0.89	1.73	-7.34	0.46	-8.10	-6.57	21.07	0.58
1.00	J	0.32	0.86	-1.09	1.72	-7.34	0.53	-8.21	-6.47	21.10	0.60
0.0	T	0.32	0.86	-1.09	1.72	-7.34	0.53	-8.21	-6.47	21.10	0.60
0.10	F	0.27	0.83	-1.09	1.63	-7.27	0.46	-8.02	-6.51	21.32	0.43
0.20	R	0.40	0.85	-1.00	1.79	-7.24	0.42	-7.93	-6.55	20.87	0.42
0.30	O	0.57	0.89	-0.90	2.03	-7.31	0.51	-8.14	-6.48	20.75	0.51
0.40	E	1.10	0.71	-0.07	2.27	-7.08	0.81	-8.41	-5.76	20.56	0.54
0.50	T	1.36	0.60	0.27	2.45	-7.15	0.73	-8.35	-5.95	20.64	0.63
0.60	U	1.50	0.70	0.35	2.64	-7.37	0.43	-8.06	-6.67	20.34	0.68
0.70	R	1.61	0.80	0.29	2.93	-7.46	0.30	-7.94	-6.97	20.24	0.67
0.80	N	1.83	0.84	0.46	3.21	-7.46	0.31	-7.96	-6.95	20.44	0.73
0.90	T	1.77	0.84	0.39	3.15	-7.47	0.35	-8.05	-6.95	20.23	0.73
1.00	J	1.76	1.02	0.09	3.43	-7.52	0.44	-8.23	-6.80	19.93	0.87

LANDMARK - RT ELBOW CENTER (24)

TIME	SAMPLE	CO-ORDINATE X					CO-ORDINATE Y					CO-ORDINATE Z					
		M	S	E	PCT	95	PCT	M	S	E	PCT	95	PCT	M	S	E	PCT
0.0	T	6.50	1.11	4.67	8.32	7.05	0.51	-7.90	0.72	-13.52	10.55	1.51	8.08	13.02	0.0	0.0	0.0
0.10	T	5.90	1.09	4.12	7.68	-8.18	1.31	-10.33	-6.03	10.49	1.47	8.09	12.90	1.28	1.28	1.28	
F	0.20	5.43	1.15	3.55	7.32	-8.50	1.37	-10.81	-6.31	10.53	1.55	8.00	13.07	0.60	1.88	1.88	
R	0.30	4.55	1.12	2.72	6.38	-8.89	1.57	-11.46	-6.32	10.55	1.55	7.95	13.15	0.94	2.82	2.82	
R	0.40	3.37	0.97	1.78	4.96	-9.50	1.59	-12.11	-6.89	10.52	1.53	8.14	13.16	1.34	4.16	4.16	
M	0.50	2.82	0.89	1.36	4.28	-10.07	1.75	-12.94	-7.20	10.93	1.34	8.74	13.13	0.84	4.99	4.99	
A	0.60	2.86	0.60	1.88	3.84	-11.59	1.43	-13.31	-8.55	11.49	1.03	9.80	13.19	1.03	6.02	6.02	
K	0.70	3.16	0.53	2.30	4.03	-11.59	1.39	-13.87	-9.31	12.45	0.74	10.95	13.36	0.98	7.00	7.00	
D	0.80	3.49	0.42	2.80	4.17	-12.13	1.37	-14.38	-9.98	12.52	0.73	11.55	13.84	0.80	8.26	8.26	
U	0.90	3.86	0.33	3.32	4.39	-12.07	1.25	-14.12	-10.02	12.91	0.87	11.49	14.33	0.46	8.26	8.26	
U	1.00	3.98	0.40	3.32	4.63	-12.07	1.31	-14.23	-9.92	12.90	0.95	11.41	14.51	0.13	8.39	8.39	
O	0.0	6	3.98	0.40	3.32	4.63	-12.07	1.31	-14.23	-9.92	12.96	0.95	11.41	14.51	0.0	0.0	0.0
O	0.10	6	3.90	0.43	3.20	4.60	-11.43	1.23	-13.46	-9.41	12.44	0.81	11.10	13.77	0.83	0.83	0.83
V	0.20	7	3.62	0.49	3.02	4.61	-10.59	1.04	-12.30	-8.88	11.59	1.03	9.93	13.46	1.13	1.90	1.90
R	0.30	7	3.73	0.77	2.46	4.99	-10.01	1.06	-11.76	-8.27	11.30	1.26	9.23	13.37	0.70	2.66	2.66
E	0.40	7	4.12	0.91	2.63	5.62	-9.37	1.05	-11.09	-7.66	11.41	1.44	8.73	13.46	0.78	3.45	3.45
T	0.50	7	4.72	1.12	2.89	6.55	-8.92	1.00	-10.56	-7.29	10.94	1.61	8.26	13.55	0.77	4.22	4.22
U	0.60	7	5.42	1.10	3.63	7.22	-8.34	1.06	-10.05	-6.56	10.79	1.60	8.16	13.42	0.94	5.16	5.16
R	0.70	7	6.02	0.98	4.41	7.03	-7.86	0.54	-9.40	-6.31	10.73	1.61	8.09	13.37	0.75	5.91	5.91
N	0.80	7	6.34	0.91	4.83	7.83	-7.46	0.66	-8.54	-6.37	10.57	1.63	8.00	13.34	0.51	6.42	6.42
U	0.90	7	6.48	1.01	4.83	8.14	-7.21	0.49	-8.02	-6.40	10.58	1.64	7.88	13.27	0.30	6.73	6.73
U	1.00	7	6.50	1.11	4.67	8.32	-7.05	0.51	-7.90	-6.21	10.52	1.51	8.08	13.02	0.46	6.88	6.88

LANDMARK - RT WRIST CENTER (26)

TIME	SAMPLE	CO-ORDINATE X					CO-ORDINATE Y					CO-ORDINATE Z					
		M	S	E	PCT	95	PCT	M	S	E	PCT	95	PCT	M	S	E	PCT
O	0	0	15.56	0.76	14.31	16.80	-2.98	0.38	-3.61	-2.35	12.12	0.59	11.15	12.10	0.0	0.0	0.0
O	0.10	6	14.58	0.67	13.49	15.68	-4.00	0.53	-4.83	-3.13	12.24	1.23	10.20	14.23	1.42	1.42	1.42
F	0.20	6	13.87	1.09	12.08	15.66	-4.60	0.74	-5.82	-3.39	12.90	1.69	10.13	15.67	1.15	2.57	2.57
O	0.30	7	12.56	1.25	10.51	14.61	-5.33	1.11	-7.14	-3.51	13.88	2.06	10.50	17.26	1.79	4.36	4.36
O	0.40	7	10.06	1.02	9.32	12.33	-6.73	1.52	-9.27	-4.29	15.40	2.15	11.07	18.94	2.84	7.20	7.20
M	0.50	7	9.32	1.15	7.44	11.20	-8.31	1.67	-11.06	-5.57	17.24	1.65	11.59	19.84	2.73	9.92	9.92
A	0.60	7	7.66	1.67	5.13	10.00	-11.15	2.07	-14.54	-7.76	19.57	1.15	11.17	20.96	3.68	13.64	13.64
K	0.70	7	8.57	0.71	7.41	9.03	-12.34	1.03	-14.04	-10.65	19.37	0.57	18.43	20.31	1.42	15.03	15.03
D	0.80	7	9.25	0.49	8.45	10.34	-13.45	0.94	-14.99	-11.91	19.45	0.42	18.75	20.14	1.30	16.33	16.33
D	0.90	7	9.76	0.49	8.95	10.57	-13.60	0.83	-15.02	-12.30	19.58	0.29	19.12	20.05	0.57	16.94	16.94
U	1.00	7	9.94	0.52	9.09	10.79	-13.55	0.80	-14.87	-12.24	19.56	0.37	19.01	20.22	0.24	17.11	17.11
O	0	7	9.94	0.52	9.09	10.79	-13.55	0.80	-14.87	-12.24	19.62	0.37	19.01	20.22	0.0	0.0	0.0
O	0.10	7	9.37	0.53	8.42	10.31	-12.34	0.72	-13.52	-11.16	19.43	0.27	18.99	19.88	1.35	1.35	1.35
K	0.20	7	9.27	0.64	8.22	10.31	-10.72	1.11	-12.54	-8.90	18.79	1.62	19.95	21.74	3.10	3.10	3.10
K	0.30	7	9.92	0.59	8.95	10.89	-8.69	1.86	-11.74	-5.63	17.80	1.36	15.57	20.03	2.36	5.45	5.45
E	0.40	7	11.37	0.49	10.56	12.17	-6.47	2.58	-10.71	-2.23	16.34	1.77	13.41	19.23	3.03	8.48	8.48
T	0.50	7	12.57	1.12	10.74	14.40	-5.99	1.29	-8.10	-3.88	15.24	1.49	12.80	17.69	1.08	1.07	1.07
U	0.60	7	14.16	0.87	12.73	15.59	-4.48	1.32	-6.65	-2.32	13.34	1.27	11.25	15.41	2.91	13.08	13.08
K	0.70	7	14.63	1.09	12.85	16.41	-4.28	0.78	-5.53	-2.96	12.94	1.13	11.05	14.77	0.67	13.75	13.75
N	0.80	7	15.16	0.83	13.80	16.51	-3.70	0.59	-4.68	-2.73	12.44	0.88	10.97	13.85	0.91	14.66	14.66
U	0.90	6	15.39	0.79	14.10	16.68	-3.27	0.47	-4.04	-2.51	12.20	0.80	10.88	13.51	0.53	15.19	15.19
U	1.00	6	15.56	0.76	14.31	16.80	-2.98	0.38	-3.61	-2.35	12.12	0.59	11.15	13.10	0.34	15.54	15.54

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +15.0, -13.0, +4.8 TO HATCH RELEASE CONTROLLER AT +13.0, -13.0, +23.0 AND RETURNS. LEFT HAND REMAINS AT THROTTLE CONTROLLER AT +20.0, +10.0, +12.4.

MOTION NUMBER - 12160
BACK ANGLE - 13

SUB-MOVEMENT	TIME DATA		RANGE
	MEAN	STD DEV	
RGHT FWD	0.64	0.10	0.50 TO 0.80 SECS.
RGHT REV	0.73	0.20	0.40 TO 1.00 SECS.

LANDMARK - NASION

(1)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)			(- - - Y - CO-ORDINATE - - -)			(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	6.98	1.34	4.79	9.18	-2.58	1.37	-4.82	-0.34	28.84	1.27	26.77	30.92
0.10	F	6.57	1.15	4.15	8.99	-2.37	0.95	-3.93	-0.81	29.44	1.00	27.80	31.09
0.20	D	6.20	1.58	3.61	8.79	-2.09	0.80	-3.60	-0.78	29.76	0.93	28.23	31.29
0.30	O	5.95	1.56	3.39	8.51	-2.02	0.77	-3.29	-0.76	29.77	0.85	28.37	31.17
0.40	R	5.89	1.46	3.50	8.29	-2.12	0.83	-3.49	-0.75	29.79	0.90	28.32	31.26
0.50	M	6.01	1.42	3.68	8.34	-2.24	0.93	-3.77	-0.72	29.85	0.98	28.25	31.46
0.60	A	5.57	1.54	3.48	8.54	-2.29	0.57	-3.88	-0.70	29.84	0.99	28.22	31.47
0.70	R	5.92	1.53	3.41	8.43	-2.26	1.00	-3.90	-0.63	29.82	0.93	28.30	31.35
0.80	D	5.81	1.52	3.31	8.30	-2.20	1.01	-3.86	-0.53	29.75	0.99	28.12	31.37
0.90	N	5.83	1.62	3.17	8.48	-2.22	1.09	-4.00	-0.44	29.71	1.07	27.96	31.47
1.00	T	5.89	1.72	3.06	8.72	-2.26	1.16	-4.16	-0.35	29.71	1.13	27.86	31.55
0.0	F	5.89	1.72	3.06	8.72	-2.26	1.16	-4.16	-0.35	29.71	1.13	27.86	31.55
0.10	R	6.13	1.63	3.46	8.80	-2.41	1.11	-4.23	-0.60	29.64	1.13	27.59	31.29
0.20	D	6.25	1.55	3.70	8.79	-2.40	1.14	-4.26	-0.53	29.21	1.08	27.44	30.99
0.30	O	6.29	1.47	3.87	8.70	-2.42	1.11	-4.40	-0.44	29.04	1.16	27.14	30.94
0.40	R	6.45	1.48	4.02	8.88	-2.42	1.22	-4.42	-0.42	29.00	1.25	26.95	31.04
0.50	M	6.46	1.38	4.20	8.72	-2.49	1.22	-4.49	-0.49	28.95	1.27	26.87	31.04
0.60	A	6.58	1.36	4.34	8.81	-2.53	1.24	-4.56	-0.49	28.91	1.25	26.86	30.96
0.70	R	6.83	1.37	4.58	9.09	-2.49	1.18	-4.43	-0.56	28.89	1.24	26.85	30.92
0.80	D	6.89	1.37	4.64	9.14	-2.52	1.12	-4.36	-0.68	28.92	1.25	26.87	30.98
0.90	N	6.89	1.31	4.74	9.05	-2.57	1.16	-4.47	-0.67	28.86	1.29	26.74	30.98
1.00	T	6.79	1.34	4.79	9.18	-2.58	1.37	-4.82	-0.34	28.84	1.27	26.77	30.92

LANDMARK - CERVICALE

(2)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)			(- - - Y - CO-ORDINATE - - -)			(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-0.45	1.36	-2.68	1.78	0.53	0.47	-0.25	1.31	23.60	1.02	21.93	25.28
0.10	F	-0.51	1.38	-2.77	1.75	0.69	0.72	-0.49	1.87	23.63	0.98	22.03	25.24
0.20	D	-0.59	1.31	-2.73	1.55	0.93	0.84	-0.45	2.31	23.67	0.97	22.08	25.25
0.30	O	-0.68	1.07	-2.44	1.08	1.05	0.96	-0.52	2.63	23.77	1.06	22.03	25.51
0.40	R	-0.85	0.93	-2.37	0.67	0.97	1.00	-0.67	2.61	23.82	1.07	22.06	25.58
0.50	M	-0.94	0.98	-2.54	0.67	1.02	0.81	-0.31	2.34	23.82	1.05	22.10	25.54
0.60	A	-0.67	1.30	-2.65	1.13	0.71	0.71	-0.04	2.29	23.86	1.05	22.14	25.57
0.70	R	-0.63	1.24	-2.67	1.41	1.22	0.78	-0.07	2.51	23.87	1.01	22.22	25.52
0.80	D	-0.63	1.20	-2.60	1.34	1.39	1.03	-0.30	3.08	23.84	0.96	22.23	25.39
0.90	N	-0.66	1.11	-2.49	1.16	1.23	0.90	-0.24	2.70	23.85	0.97	22.26	25.44
1.00	T	-0.70	1.03	-2.38	0.99	0.98	0.77	-0.27	2.24	23.89	0.97	22.31	25.48
0.0	F	-0.70	1.03	-2.38	0.99	0.98	0.77	-0.27	2.24	23.89	0.97	22.31	25.48
0.10	R	-0.78	1.07	-2.53	0.98	0.97	0.68	-0.14	2.08	23.93	0.97	22.33	25.52
0.20	D	-0.77	1.03	-2.45	0.92	1.07	0.69	-0.07	2.20	23.76	0.95	22.20	25.32
0.30	O	-0.82	1.04	-2.52	0.89	1.02	0.77	-0.25	2.29	23.60	1.02	21.92	25.27
0.40	R	-0.87	1.18	-2.81	1.07	0.90	0.72	-0.29	2.08	23.64	0.99	22.01	25.27
0.50	M	-0.78	1.10	-2.59	1.03	0.79	0.54	-0.10	1.67	23.58	0.94	22.03	25.13
0.60	A	-0.64	1.27	-2.71	1.44	0.76	0.67	-0.33	1.86	23.55	0.93	22.04	25.07
0.70	R	-0.43	1.33	-2.61	1.75	0.78	0.86	-0.63	2.19	23.61	0.99	21.98	25.23
0.80	D	-0.37	1.34	-2.49	1.89	0.82	0.81	-0.52	2.15	23.63	1.06	21.89	25.36
0.90	N	-0.32	1.33	-2.50	1.85	0.64	0.69	-0.50	1.77	23.59	1.04	21.89	25.30
1.00	T	-0.45	1.36	-2.68	1.78	0.53	0.47	-0.25	1.31	23.60	1.02	21.93	25.28

LANDMARK - SUPRASENTAL E (3)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	SAMPLE N	2.57	1.51	0.11	5.04	0.53	1.02	-1.15	2.20	22.79	1.28	20.69	24.59	0.0	0.0	0.0	0.0
0.0		2.48	1.47	0.08	4.89	0.71	1.22	-1.29	2.70	22.76	1.18	20.82	24.69	0.21	0.21	0.21	0.21
F	0.20	2.35	1.47	-0.07	4.77	0.83	1.23	-1.18	2.84	22.77	1.07	21.01	24.52	0.18	0.39	0.19	0.39
0.0	0.30	2.20	1.50	-0.26	4.66	0.70	1.05	-1.02	2.43	22.78	1.05	21.06	24.51	0.19	0.58	0.19	0.58
R	0.40	2.14	1.40	-0.16	4.44	0.78	1.07	-0.98	2.53	22.85	1.06	21.12	24.58	0.12	0.70	0.12	0.70
W	0.50	2.23	1.41	-0.09	4.54	0.95	1.18	-0.98	2.89	22.99	1.09	21.19	24.78	0.24	0.94	0.24	0.94
A	0.60	2.22	1.66	-0.49	4.94	1.02	1.35	-1.19	3.23	22.98	1.12	21.14	24.83	0.07	1.01	0.07	1.01
R	0.70	2.08	1.63	-0.59	4.75	1.08	1.34	-1.12	3.28	22.98	1.10	21.18	24.78	0.15	1.16	0.15	1.16
D	0.80	1.98	1.53	-0.52	4.49	1.01	1.26	-1.07	3.07	22.88	1.03	21.19	24.57	0.16	1.32	0.16	1.32
N	0.90	2.14	1.43	-0.21	4.48	0.87	1.22	-1.13	2.88	22.90	1.05	21.18	24.61	0.20	1.52	0.20	1.52
R	0.40	2.30	1.54	-0.23	4.82	0.75	1.30	-1.38	2.88	22.98	1.09	21.20	24.76	0.22	1.74	0.22	1.74
1.00																	

LANDMARK - RT ACRION (4)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	SAMPLE N	0.69	1.24	-1.34	2.73	-7.97	0.55	-8.87	-7.08	21.62	1.02	19.95	23.28	0.0	0.0	0.0	0.0
0.0		0.27	1.16	-1.63	2.16	-7.74	0.57	-8.67	-6.81	22.92	0.97	21.32	24.52	0.12	0.26	0.12	0.26
F	0.20	-0.18	1.07	-1.93	1.57	-7.56	0.53	-8.43	-6.69	21.93	0.92	20.42	23.45	0.19	0.45	0.19	0.45
D	0.30	0.53	0.97	-2.12	1.07	-7.58	0.45	-8.31	-6.84	21.51	1.01	18.38	24.64	0.55	1.60	0.55	1.60
R	0.40	-0.74	0.88	-2.18	0.70	-7.54	0.43	-8.25	-6.83	21.88	1.06	19.32	24.44	0.43	2.03	0.43	2.03
W	0.50	-0.76	0.99	-2.38	0.85	-7.41	0.52	-8.26	-6.56	22.65	0.89	21.18	24.11	0.78	2.80	0.78	2.80
A	0.60	-0.73	1.29	-2.84	1.37	-7.30	0.60	-8.28	-6.32	22.19	0.78	21.52	24.06	0.19	2.99	0.19	2.99
R	0.70	-0.84	1.28	-2.94	1.26	-7.16	0.61	-8.16	-6.16	22.94	0.61	21.94	23.93	0.22	3.21	0.22	3.21
D	0.80	-0.79	0.97	-2.39	0.80	-7.15	0.54	-8.03	-6.26	22.85	0.77	21.59	24.12	0.10	3.31	0.10	3.31
N	0.90	-0.70	0.93	-2.24	0.83	-7.16	0.59	-8.14	-6.19	22.70	0.79	21.60	24.20	0.10	3.41	0.10	3.41
R	0.00	-0.65	0.96	-2.22	0.92	-7.22	0.57	-8.15	-6.30	22.97	0.82	21.62	24.32	0.11	3.52	0.11	3.52
1.00																	

LANDMARK - RT GRIP CENTER (16)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	7	13.78	0.88	12.34	15.22	-14.15	0.65	-15.22	-13.09	4.21	0.41	3.54	4.87	0.0	0.0	0.0	0.0	
0.0	7	12.92	0.65	11.85	13.99	-14.84	0.55	-16.41	-13.28	6.53	1.75	3.66	9.41	2.58	2.58	2.58	2.58	
F	0.10	7	12.37	1.13	10.51	14.23	1.56	-18.03	-12.92	8.81	1.75	5.94	11.68	2.42	5.00	2.42	5.00	
O	0.30	7	11.31	1.53	8.81	13.81	1.67	2.40	-20.60	-12.74	13.33	3.74	7.21	19.46	4.80	9.80	4.80	9.80
R	0.40	7	11.05	1.31	8.91	13.19	1.79	1.96	-20.01	-13.57	15.57	2.24	11.90	19.24	2.26	12.05	2.26	12.05
W	0.50	7	10.87	1.60	8.24	13.69	1.85	1.36	-18.85	-14.40	18.64	1.82	15.67	21.67	3.12	15.17	3.12	15.17
A	0.60	7	11.39	1.35	9.17	13.61	1.95	1.21	-17.94	-13.96	20.45	1.01	18.69	22.10	1.96	17.13	1.96	17.13
R	0.70	7	11.83	0.92	10.32	13.35	1.24	0.91	-16.74	-13.75	21.48	0.72	20.30	22.66	1.33	18.46	1.33	18.46
D	0.80	7	12.25	0.55	11.35	13.16	1.75	0.64	-15.80	-13.69	22.5	0.36	21.46	22.64	0.87	19.43	0.87	19.43
O	0.90	7	12.50	0.48	11.71	13.29	1.58	0.53	-15.45	-13.71	22.18	0.40	21.52	22.85	0.32	19.65	0.32	19.65
1.00	7	12.50	0.58	11.55	13.45	1.60	0.61	-15.50	-13.51	22.19	0.48	21.40	22.99	0.08	19.73	0.08	19.73	
0.0	7	12.50	0.58	11.55	13.45	1.60	0.61	-15.50	-13.51	22.19	0.48	21.40	22.99	0.0	0.0	0.0	0.0	
0.10	7	12.08	0.86	10.66	13.49	-14.88	0.61	-15.88	-13.88	21.32	0.45	20.59	22.06	1.04	1.04	1.04	1.04	
O	0.20	7	11.72	1.35	9.52	13.93	-15.66	0.83	-17.02	-14.30	19.59	1.11	17.77	21.42	1.93	2.97	1.93	2.97
R	0.30	7	11.41	1.41	8.58	14.24	-16.40	1.01	-16.05	-14.74	16.94	2.13	13.45	20.43	2.77	5.74	2.77	5.74
E	0.40	7	11.44	1.64	8.74	14.14	-16.67	1.06	-18.42	-14.93	13.50	2.65	18.35	3.45	9.19	3.45	9.19	
T	0.50	7	11.62	1.48	9.20	14.04	-16.41	1.31	-18.55	-14.26	10.10	3.15	4.94	15.27	3.41	12.60	3.41	12.60
U	0.60	7	12.14	1.45	9.93	14.35	-15.73	1.53	-18.25	-13.21	7.72	2.49	3.64	11.79	2.54	15.4	2.54	15.4
U	0.70	7	12.75	1.48	10.33	15.83	-14.99	1.45	-17.37	-12.62	6.00	1.61	3.36	8.65	1.96	17.10	1.96	17.10
N	0.80	7	13.22	1.36	10.99	15.45	-16.66	1.03	-16.36	-12.97	5.35	1.02	3.37	6.72	1.11	18.21	1.11	18.21
N	0.90	7	13.59	1.14	11.73	15.46	-14.42	0.65	-15.48	-13.36	4.49	0.65	3.42	5.55	0.71	18.3	0.71	18.3
1.00	7	13.78	0.88	12.34	15.02	-14.15	0.65	-15.22	-13.09	4.21	0.41	3.54	4.87	0.43	19.36	0.43	19.36	

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	7	4.48	1.23	2.47	5.50	-7.73	1.00	-9.38	-6.08	3.39	0.42	3.20	4.59	0.0	0.0	0.0	0.0	
0.0	7	4.12	0.84	2.74	5.50	-7.68	1.03	-9.37	-6.00	3.87	0.52	3.01	4.73	0.37	0.37	0.37	0.37	
F	0.20	7	4.04	0.86	2.64	5.45	-7.64	1.14	-9.51	-5.77	3.84	0.63	2.80	4.88	0.09	0.46	0.09	0.46
O	0.30	7	4.21	1.10	2.41	6.01	-7.70	1.18	-9.65	-5.76	3.88	0.62	2.87	4.89	0.18	0.64	0.18	0.64
R	0.40	7	4.26	1.18	2.32	6.19	-7.78	1.12	-9.62	-5.95	4.14	1.02	2.46	5.81	0.27	0.91	0.27	0.91
W	0.50	7	4.39	1.07	2.63	6.15	-7.79	0.99	-9.43	-6.16	4.50	1.76	1.62	7.38	0.39	1.30	0.39	1.30
A	0.60	7	4.43	1.11	2.61	6.25	-7.72	0.99	-9.34	-6.10	4.20	1.91	2.71	5.69	0.31	1.61	0.31	1.61
R	0.70	7	4.45	1.15	2.46	6.23	-7.66	0.95	-9.22	-6.09	3.96	0.49	3.15	4.77	0.56	1.87	0.56	1.87
O	0.80	7	4.36	1.25	2.31	6.40	-7.66	0.93	-9.19	-6.14	3.90	0.49	3.10	4.69	0.07	1.94	0.07	1.94
O	0.90	7	4.42	1.43	2.06	6.77	-7.76	1.00	-9.39	-6.12	3.94	0.49	3.13	4.75	0.12	2.06	0.12	2.06
1.00	7	4.37	1.57	1.80	6.95	-7.83	1.11	-9.65	-6.02	4.03	0.53	3.15	4.90	0.12	2.18	0.12	2.18	
0.0	7	4.37	1.57	1.80	6.95	-7.83	1.11	-9.65	-6.02	4.03	0.53	3.15	4.90	0.0	0.0	0.0	0.0	
0.10	7	4.23	1.41	1.91	6.55	-7.82	1.18	-9.75	-5.89	3.39	0.54	3.10	4.88	0.15	0.15	0.15	0.15	
R	0.30	7	4.12	1.22	2.19	6.00	-7.67	1.06	-9.41	-5.93	3.90	0.53	3.03	4.77	0.18	0.32	0.18	0.32
E	0.40	7	4.15	1.22	2.15	6.16	-7.64	0.95	-9.20	-6.02	3.86	0.52	3.02	4.71	0.11	0.43	0.11	0.43
T	0.50	7	4.07	1.44	1.72	6.43	-7.69	0.79	-8.99	-6.39	3.88	0.48	3.10	4.66	0.06	0.49	0.06	0.49
U	0.60	7	4.13	1.44	1.76	6.49	-7.80	0.89	-9.26	-6.34	3.87	0.49	3.07	4.66	0.12	0.71	0.12	0.71
R	0.70	7	4.35	1.21	2.37	6.33	-7.84	1.06	-9.58	-6.09	2.82	2.53	-1.33	6.98	0.07	1.73	0.07	1.73
N	0.80	7	4.47	1.21	2.49	6.46	-7.72	1.11	-9.11	-5.90	2.89	2.58	-1.34	7.12	0.18	1.96	0.18	1.96
O	0.90	7	4.35	1.33	2.17	6.53	-7.76	0.94	-9.29	-6.22	3.98	0.50	3.07	4.70	1.00	2.95	1.00	2.95
1.00	7	4.48	1.23	2.47	6.50	-7.73	1.00	-9.38	-6.03	3.39	0.49	3.20	4.59	0.14	3.10	0.14	3.10	

LANDMARK - RT KNEE TOP (20)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	19.62	0.67	18.53	20.72	-6.32	1.65	-9.02	-3.62	11.73	0.63	10.70	12.76	0.0	0.0	0.0	0.0
0.10	7	19.59	0.50	18.76	20.41	-6.38	1.73	-9.22	-3.54	11.70	0.61	10.69	12.70	0.08	0.08	0.08	0.08
F	7	19.62	0.48	18.83	20.41	-6.39	1.79	-9.32	-3.45	11.66	0.58	10.71	12.61	0.05	0.05	0.12	0.12
O	30	19.43	0.83	18.07	20.79	-6.47	1.73	-9.31	-3.64	11.56	0.57	10.62	12.20	0.23	0.23	0.36	0.36
R	40	19.59	0.74	18.38	20.81	-6.25	1.67	-9.25	-3.76	11.61	0.60	10.62	12.60	0.17	0.17	0.53	0.53
W	50	19.61	0.49	18.81	20.41	-6.36	1.76	-9.23	-3.48	11.75	0.67	10.64	12.85	0.20	0.20	0.73	0.73
A	60	19.71	0.67	18.62	20.80	-6.43	1.66	-9.15	-3.70	11.75	0.62	10.73	12.77	0.12	0.12	0.85	0.85
R	70	19.72	0.67	18.62	20.81	-6.44	1.63	-9.11	-3.77	11.72	0.68	10.60	12.84	0.04	0.04	0.89	0.89
D	80	19.64	0.54	18.75	20.53	-6.42	1.69	-9.18	-3.65	11.44	0.70	10.49	12.79	0.11	0.11	1.00	1.00
O	90	19.60	0.57	18.66	20.54	-6.42	1.68	-9.17	-3.67	11.59	0.60	10.71	12.68	0.07	0.07	1.07	1.07
1.00	7	19.56	0.80	18.25	20.87	-6.41	1.66	-9.12	-3.69	11.77	0.54	10.88	12.66	0.09	0.09	1.16	1.16
0.0	7	19.56	0.80	18.25	20.87	-6.41	1.66	-9.12	-3.69	11.77	0.54	10.88	12.66	0.0	0.0	0.0	0.0
0.10	7	19.67	0.59	18.70	20.64	-6.43	1.72	-9.25	-3.61	11.74	0.65	10.68	12.91	0.11	0.11	0.11	0.11
R	20	19.52	0.55	18.71	20.53	-6.43	1.69	-9.20	-3.67	11.70	0.74	10.49	12.92	0.06	0.06	0.17	0.17
R	30	19.55	0.54	18.66	20.43	-6.41	1.62	-9.06	-3.75	11.63	0.74	10.42	12.83	0.11	0.11	0.28	0.28
E	40	19.58	0.55	18.69	20.48	-6.33	1.59	-9.94	-3.72	11.52	0.72	10.43	12.81	0.09	0.09	0.37	0.37
T	50	19.55	0.57	18.61	20.49	-6.29	1.55	-8.83	-3.75	11.64	0.74	10.42	12.86	0.06	0.06	0.42	0.42
U	60	19.61	0.55	18.70	20.52	-6.29	1.51	-8.76	-3.81	11.65	0.69	10.51	12.79	0.06	0.06	0.48	0.48
R	70	19.73	0.60	18.75	20.72	-6.25	1.54	-8.78	-3.73	11.56	0.60	10.67	12.65	0.13	0.13	0.61	0.61
N	80	19.69	0.69	18.55	20.83	-6.28	1.46	-8.68	-3.88	11.67	0.59	10.71	12.63	0.05	0.05	0.67	0.67
O	90	19.60	0.69	18.47	20.73	-6.35	1.46	-8.75	-3.96	11.66	0.59	10.69	12.64	0.11	0.11	0.78	0.78
1.00	7	19.62	0.67	18.53	20.72	-6.32	1.65	-9.02	-3.62	11.73	0.63	10.76	12.76	0.08	0.08	0.86	0.86

LANDMARK - RT SHOULDER CENTER (22)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	1.44	0.96	-0.13	3.00	-7.63	0.43	-8.66	-6.60	19.61	0.86	18.19	21.02	0.0	0.0	0.0	0.0
0.10	7	1.09	0.81	-0.24	2.42	-7.59	0.57	-8.53	-6.65	19.90	0.69	18.77	21.04	0.46	0.46	0.46	0.46
F	20	0.69	0.71	-0.47	1.85	-7.57	0.51	-8.41	-6.74	20.02	0.70	18.88	21.17	0.42	0.42	0.88	0.88
O	30	0.36	0.63	-0.63	1.39	-7.70	0.50	-8.52	-6.88	20.14	0.78	18.82	21.38	0.36	0.36	1.24	1.24
R	40	0.21	0.65	-0.85	1.28	-7.83	0.51	-8.67	-6.99	20.34	0.82	19.00	21.68	0.31	0.31	1.55	1.55
W	50	0.23	0.72	-1.41	1.41	-7.81	0.49	-8.62	-7.00	20.61	0.75	19.38	21.83	0.27	0.27	1.82	1.82
A	60	0.40	1.02	-1.28	2.08	-7.72	0.44	-8.44	-7.00	20.87	0.58	19.92	21.81	0.32	0.32	2.14	2.14
R	70	0.48	1.04	-1.22	2.18	-7.67	0.43	-8.37	-6.97	21.02	0.45	20.28	21.77	0.18	0.18	2.32	2.32
D	80	0.53	1.01	-1.12	2.18	-7.71	0.55	-8.61	-6.82	21.07	0.45	20.34	21.81	0.08	0.08	2.41	2.41
O	90	0.55	1.03	-1.14	2.24	-7.76	0.59	-8.73	-6.79	21.15	0.46	20.40	21.90	0.09	0.09	2.50	2.50
1.00	7	0.50	1.04	-1.21	2.21	-7.78	0.65	-8.85	-6.71	21.21	0.44	20.49	21.94	0.08	0.08	2.56	2.56
0.0	7	0.50	1.04	-1.21	2.21	-7.78	0.65	-8.85	-6.71	21.21	0.44	20.49	21.94	0.0	0.0	0.0	0.0
0.10	7	0.33	0.94	-1.22	1.88	-7.75	0.55	-8.65	-6.84	21.06	0.42	20.38	21.74	0.24	0.24	0.55	0.55
O	20	0.25	0.95	-1.32	1.81	-7.69	0.52	-8.55	-6.84	20.76	0.44	20.04	21.49	0.31	0.31	0.83	0.83
R	30	0.21	0.83	-1.16	1.57	-7.73	0.45	-8.47	-6.99	20.48	0.49	19.68	21.28	0.28	0.28	0.83	0.83
E	40	0.33	0.90	-1.13	1.80	-7.62	0.46	-8.38	-6.87	20.40	0.47	19.62	21.17	0.19	0.19	1.02	1.02
T	50	0.39	0.83	-0.96	1.75	-7.66	0.41	-8.33	-6.99	20.24	0.51	19.40	21.08	0.17	0.17	1.20	1.20
U	60	0.57	0.91	-0.91	2.06	-7.69	0.42	-8.37	-7.01	20.04	0.64	18.99	21.10	0.26	0.26	1.46	1.46
R	70	0.95	1.06	-0.78	2.69	-7.67	0.41	-8.35	-7.00	19.97	0.66	18.88	21.06	0.39	0.39	1.85	1.85
N	80	1.28	0.98	-0.32	2.89	-7.66	0.44	-8.38	-6.94	19.80	0.78	18.53	21.07	0.37	0.37	2.22	2.22
O	90	1.42	0.94	-0.12	2.96	-7.74	0.49	-8.54	-6.95	19.68	0.85	18.29	21.07	0.20	0.20	2.42	2.42
1.00	7	1.44	0.96	-0.13	3.00	-7.63	0.63	-8.66	-6.60	19.64	0.86	18.19	21.02	0.14	0.14	2.56	2.56

LANDMARK - RT ELBOW CENTER { 24 }

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					DISTANCE MOVED				
		MEAN	SE	S PCT	95 PCT	MEAN	SE	S PCT	95 PCT	MEAN	SE	S PCT	95 PCT	MEAN	SE	S PCT	95 PCT	INCR	CUM		
0.0	6	2.75	1.62	0.09	5.40	-9.33	0.73	10.52	-8.13	9.09	1.56	6.53	11.65	0.0	0.0	0.0	0.0	0.0	0.0		
0.10	6	2.14	0.91	0.65	3.63	-9.82	0.65	10.89	-8.75	9.46	1.35	7.25	11.67	0.86	0.86	0.86	0.86	0.86	0.86		
F 0.20	7	1.04	1.64	-1.64	3.73	-10.53	1.20	12.49	-9.87	9.88	1.27	7.79	11.97	2.24	2.24	2.24	2.24	2.24	2.24		
O 0.30	7	0.73	1.76	-1.96	3.82	-10.67	1.12	12.51	-8.83	10.11	1.24	8.07	12.14	0.29	0.29	0.29	0.29	0.29	0.29		
R 0.40	7	1.36	1.70	-1.43	4.14	-11.11	1.05	12.84	-9.39	10.80	0.92	9.29	12.31	0.93	0.93	0.93	0.93	0.93	0.93		
W 0.50	7	2.16	1.61	-0.47	4.79	-11.79	1.02	13.47	-10.11	11.46	0.95	9.89	13.02	1.24	1.24	1.24	1.24	1.24	1.24		
A 0.60	7	2.80	1.54	0.27	5.33	-12.33	1.01	13.99	-10.68	11.96	0.89	10.49	13.42	0.97	0.97	0.97	0.97	0.97	0.97		
R 0.70	7	3.20	1.30	1.07	5.24	-12.75	1.04	14.47	-11.04	12.54	0.61	11.53	13.55	0.82	0.82	0.82	0.82	0.82	0.82		
D 0.80	7	3.51	1.00	0.04	5.15	-13.04	1.02	14.71	-11.37	12.92	0.54	12.05	13.80	0.57	0.57	0.57	0.57	0.57	0.57		
O 0.90	6	3.56	1.07	1.90	5.41	-13.05	1.11	14.88	-11.23	13.28	0.45	12.54	14.02	0.38	0.38	0.38	0.38	0.38	0.38		
1.00	6	3.80	1.20	1.84	5.77	-13.03	1.14	14.90	-11.16	13.38	0.55	12.47	14.29	0.18	0.18	0.18	0.18	0.18	0.18		
0.0	6	3.80	1.20	1.84	5.77	-13.03	1.14	14.90	-11.16	13.38	0.55	12.47	14.29	0.0	0.0	0.0	0.0	0.0	0.0		
0.10	7	3.25	1.31	1.11	5.40	-12.75	1.20	14.71	-10.79	12.68	0.39	12.04	13.32	0.93	0.93	0.93	0.93	0.93	0.93		
O 0.20	7	2.54	1.54	0.01	5.06	-12.15	1.27	14.23	-10.06	11.84	0.57	10.91	12.78	1.26	1.26	1.26	1.26	1.26	1.26		
R 0.30	7	1.13	1.86	-1.32	4.77	-11.47	1.35	13.69	-9.25	11.04	0.78	9.76	12.32	1.32	1.32	1.32	1.32	1.32	1.32		
E 0.40	7	1.38	2.15	-2.45	4.61	-10.92	1.47	13.32	-8.51	10.53	0.92	9.02	12.04	0.99	0.99	0.99	0.99	0.99	0.99		
T 0.50	7	0.74	1.94	-2.44	3.92	-10.58	1.46	12.97	-8.19	10.22	1.06	8.48	11.95	0.57	0.57	0.57	0.57	0.57	0.57		
U 0.60	7	1.30	1.80	-1.95	3.95	-10.27	1.46	12.66	-7.87	9.87	1.13	8.01	11.73	0.54	0.54	0.54	0.54	0.54	0.54		
R 0.70	7	1.53	1.84	-1.48	4.55	-10.04	1.40	12.34	-7.75	9.57	1.13	7.71	11.43	0.65	0.65	0.65	0.65	0.65	0.65		
N 0.80	7	2.02	1.72	-0.72	4.84	-9.82	1.18	11.75	-7.89	9.36	1.20	7.39	11.32	0.58	0.58	0.58	0.58	0.58	0.58		
O 0.90	6	2.70	1.60	0.07	5.33	-9.38	0.61	10.38	-8.38	9.15	1.44	6.79	11.51	0.83	0.83	0.83	0.83	0.83	0.83		
1.00	6	2.75	1.62	0.09	5.40	-9.33	0.73	10.52	-8.13	9.09	1.56	6.53	11.65	0.09	0.09	0.09	0.09	0.09	0.09		

LANDMARK - RT WRIST CENTER { 26 }

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					DISTANCE MOVED				
		MEAN	SE	S PCT	95 PCT	MEAN	SE	S PCT	95 PCT	MEAN	SE	S PCT	95 PCT	MEAN	SE	S PCT	95 PCT	INCR	CUM		
0.0	7	10.52	0.87	9.09	11.96	-12.56	0.72	13.74	-11.38	4.75	0.82	3.41	6.09	0.0	0.0	0.0	0.0	0.0	0.0		
0.10	7	9.13	0.62	8.01	10.14	-13.63	0.72	14.81	-12.44	7.25	1.74	4.40	10.10	2.83	2.83	2.83	2.83	2.83	2.83		
F 0.20	7	9.17	1.12	7.34	11.00	-14.32	0.98	15.92	-12.72	9.30	2.05	5.94	12.65	2.23	2.23	2.23	2.23	2.23	2.23		
O 0.30	7	8.47	1.49	6.02	10.02	-15.23	1.35	17.45	-13.02	12.58	3.13	7.45	17.71	3.48	3.48	3.48	3.48	3.48	3.48		
R 0.40	7	8.50	1.47	6.09	10.90	-15.12	1.09	16.90	-13.33	14.71	1.76	11.83	17.59	2.14	2.14	2.14	2.14	2.14	2.14		
W 0.50	7	8.62	1.36	6.39	10.86	-14.97	1.12	16.81	-13.13	17.57	2.06	14.19	20.95	2.86	2.86	2.86	2.86	2.86	2.86		
A 0.60	7	8.97	2.22	6.90	10.78	-14.80	0.99	16.43	-13.17	18.35	0.78	17.06	19.63	0.87	0.87	0.87	0.87	0.87	0.87		
R 0.70	7	9.21	0.94	7.67	10.75	-14.56	0.83	15.93	-13.19	19.39	0.44	18.66	20.12	1.09	1.09	1.09	1.09	1.09	1.09		
D 0.80	7	9.38	0.62	8.46	10.70	-14.31	0.75	15.53	-13.08	19.87	0.32	19.34	20.40	0.61	0.61	0.61	0.61	0.61	0.61		
O 0.90	7	9.74	0.57	8.81	10.68	-14.07	0.68	15.18	-12.96	20.01	0.42	19.32	20.70	0.38	0.38	0.38	0.38	0.38	0.38		
1.00	7	9.89	0.66	8.66	10.97	-13.86	0.67	14.96	-12.77	20.33	0.65	18.97	21.09	0.26	0.26	0.26	0.26	0.26	0.26		
0.0	7	9.89	0.66	8.81	10.97	-13.86	0.67	14.96	-12.77	20.03	0.65	18.97	21.09	0.0	0.0	0.0	0.0	0.0	0.0		
0.10	7	9.10	0.85	8.36	11.09	-14.09	0.68	15.21	-12.98	19.12	1.06	18.36	19.88	0.96	0.96	0.96	0.96	0.96	0.96		
O 0.20	7	9.40	1.17	7.48	11.33	-14.53	0.85	15.91	-13.14	17.46	1.06	15.72	19.19	1.75	1.75	1.75	1.75	1.75	1.75		
R 0.30	7	9.09	1.54	6.56	11.62	-14.87	0.90	16.35	-13.39	15.05	1.82	12.06	16.03	2.45	2.45	2.45	2.45	2.45	2.45		
E 0.40	7	9.08	1.57	6.50	11.66	-14.73	0.76	15.97	-13.49	12.04	2.28	8.30	15.78	3.01	3.01	3.01	3.01	3.01	3.01		
T 0.50	7	8.90	1.36	6.68	11.13	-14.62	0.94	16.17	-13.07	9.94	2.39	6.02	13.87	2.11	2.11	2.11	2.11	2.11	2.11		
U 0.60	7	9.53	1.79	6.59	12.48	-13.81	1.66	16.53	-11.10	6.39	2.45	2.38	14.40	3.70	3.70	3.70	3.70	3.70	3.70		
R 0.70	7	9.92	2.04	6.57	13.27	-13.64	1.23	12.23	-11.62	5.38	2.01	2.09	8.67	1.09	1.09	1.09	1.09	1.09	1.09		
N 0.80	7	9.93	1.36	7.71	12.16	-13.21	1.00	14.85	-11.56	5.57	1.12	3.74	7.40	0.48	0.48	0.48	0.48	0.48	0.48		
O 0.90	7	10.24	1.15	8.35	12.13	-12.92	0.74	14.14	-11.70	5.14	0.88	3.67	6.57	0.61	0.61	0.61	0.61	0.61	0.61		
1.00	7	10.52	0.87	9.09	11.96	-12.56	0.72	13.74	-11.38	4.75	0.82	3.41	6.09	0.59	0.59	0.59	0.59	0.59	0.59		

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO HATCH RELEASE CONTROLLER AT +13.0, -13.0, +23.0 AND RETURNS. RIGHT HAND REMAINS AT STICK CONTROLLER AT +20.0, 0.0, +12.4.

NOTE:

IN THE CASE OF MOVEMENT NUMBERS 21260 AND 22260 AT 13° BACK ANGLE, TWO SETS OF TABLES EACH FOR POINTS 17 AND 27 ARE PROVIDED. THIS IS BECAUSE THESE TWO POINTS WERE OBSTRUCTED IN VIEW FROM THE CAMERA AT LOCATIONS NEARER TO HATCH RELEASE CONTROL AND THEREFORE A SECOND SERIES OF PICTURES VIEWED FROM RIGHT HAND SIDE WAS TAKEN. THE DATA FROM THE SECOND SERIES FORM THE SET OF DATA MARKED WITH AN ASTERICK FOR THE POINTS 17 AND 27. THE USER IS ADVISED TO CONSULT BOTH THE SET OF TABLES FOR THESE POINTS ONLY.

MOTION NUMBER - 21260
BACK ANGLE - 13

SUB-MOVEMENT		TIME DATA		
		MEAN	STD DEV	RANGE
LEFT FWD		0.67	0.15	0.40 TO 0.90 SECS.
LEFT REV		0.69	0.15	0.50 TO 0.90 SECS.

LANDMARK - NASSION

(1)

TIME	SAMPLE SIZE, N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	6.07	1.29	3.95	8.19	0.67	1.09	-1.12	2.45	29.07	1.02	27.39	30.74	0.0	0.0	0.0	0.0
F 0.10	7	5.38	1.15	3.49	7.27	-1.95	1.02	-3.62	-0.27	30.10	1.08	28.33	31.87	0.0	0.0	0.0	0.0
F 0.20	7	4.97	1.15	3.09	6.86	-3.27	0.63	-4.30	-2.25	30.46	1.13	28.60	32.32	1.44	4.33	2.89	4.33
D 0.30	7	4.84	1.10	3.03	6.64	-3.59	0.63	-4.61	-2.56	30.37	1.16	28.48	32.27	0.36	4.68	4.33	4.68
R 0.40	7	4.80	0.91	3.31	6.28	-3.69	0.93	-5.22	-2.10	30.35	1.18	28.41	32.29	0.11	4.79	4.33	4.79
W 0.50	7	4.63	0.96	3.05	6.21	-3.96	1.04	-5.67	-2.25	30.42	1.23	28.41	32.43	0.33	5.12	4.33	5.12
A 0.60	7	4.44	1.04	2.72	6.15	-4.16	1.09	-5.95	-2.37	30.38	1.23	28.36	32.40	0.28	5.40	4.33	5.40
R 0.70	7	4.33	0.96	2.75	5.92	-4.21	1.22	-6.22	-2.20	30.35	1.17	28.43	32.27	0.12	5.52	4.33	5.52
D 0.80	7	4.25	1.13	2.39	6.11	-4.50	0.94	-6.04	-2.95	30.36	1.25	28.32	32.40	0.30	5.82	4.33	5.82
N 0.90	7	4.25	1.21	2.27	6.23	-4.73	1.03	-6.36	-3.09	30.39	1.30	28.27	32.52	0.23	6.05	4.33	6.05
1.00	7	4.40	1.12	2.56	6.24	-4.78	1.28	-6.88	-2.68	30.36	1.30	28.23	32.50	0.16	6.21	4.33	6.21
0.0	7	4.40	1.12	2.56	6.24	-4.78	1.28	-6.88	-2.68	30.36	1.30	28.23	32.50	0.0	0.0	0.0	0.0
0.10	7	5.48	1.35	3.26	7.70	-1.88	0.42	-2.56	-1.19	29.61	1.30	27.48	31.74	3.19	3.19	3.19	3.19
0.20	7	5.99	1.28	3.90	8.08	-0.52	0.71	-1.69	0.64	29.25	1.18	27.31	31.19	1.49	4.68	4.33	4.68
R 0.30	7	5.99	1.14	4.12	7.87	-0.36	0.80	-1.67	0.95	29.14	1.13	27.29	30.99	0.20	4.88	4.33	4.88
E 0.40	7	5.89	1.29	3.77	8.01	-0.20	0.98	-1.80	1.40	29.07	1.06	27.33	30.81	0.20	5.08	4.33	5.08
T 0.50	7	5.92	1.23	3.91	7.94	-0.16	1.07	-1.91	1.60	29.10	1.04	27.39	30.81	0.06	5.14	4.33	5.14
U 0.60	7	6.01	1.21	4.03	8.00	-0.13	1.21	-2.11	1.85	29.13	1.04	27.42	30.85	0.10	5.24	4.33	5.24
R 0.70	7	6.07	1.34	3.88	8.26	-0.03	1.25	-2.03	2.03	29.14	1.07	27.38	30.90	0.11	5.35	4.33	5.35
N 0.80	7	6.04	1.32	3.87	8.21	0.21	1.31	-1.93	2.35	29.13	1.05	27.41	30.86	0.24	5.59	4.33	5.59
O 0.90	7	6.04	1.32	3.87	8.22	0.43	1.32	-1.74	2.12	29.12	1.04	27.41	30.82	0.22	5.81	4.33	5.81
1.00	7	6.07	1.29	3.95	8.19	0.67	1.09	-1.12	2.45	29.07	1.02	27.39	30.74	0.25	6.06	4.33	6.06

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LANDMARK - CERVICALE

(2)

TIME	SAMPLE SIZE, N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-1.04	0.63	-2.07	-0.01	-1.35	0.70	-2.50	-0.19	23.32	1.00	21.68	24.95	0.0	0.0	0.0	0.0
F 0.10	7	-0.88	0.65	-1.95	-0.18	-1.12	0.66	-2.21	-0.04	23.39	1.13	21.54	25.24	0.28	0.28	0.28	0.28
F 0.20	7	-0.96	0.70	-2.10	0.18	-1.08	0.75	-2.31	0.15	23.27	1.19	21.33	25.22	0.15	0.43	0.43	0.43
O 0.30	7	-1.05	0.85	-2.45	0.34	-1.07	0.74	-2.29	0.16	23.17	1.20	21.20	25.14	0.14	0.57	0.57	0.57
R 0.40	7	-0.88	0.88	-2.32	0.56	-1.11	0.89	-2.56	0.35	23.31	1.15	21.42	25.20	0.22	0.79	0.79	0.79
R 0.50	7	-0.82	0.99	-2.44	0.80	-1.22	0.61	-2.72	0.27	23.39	1.11	21.56	25.21	0.15	0.95	0.95	0.95
A 0.60	7	-0.85	1.03	-2.54	0.84	-1.33	0.78	-2.62	-0.04	23.49	1.07	21.74	25.24	0.15	1.10	1.10	1.10
R 0.70	7	-0.79	1.05	-2.52	0.93	-1.52	0.84	-2.90	-0.15	23.50	1.02	21.93	25.28	0.23	1.33	1.33	1.33
D 0.80	7	-0.65	1.00	-2.45	1.15	-1.77	1.05	-3.49	-0.06	23.52	1.05	21.90	25.33	0.29	1.62	1.62	1.62
O 0.90	7	-0.61	1.08	-2.39	1.17	-1.84	0.99	-3.47	-0.22	23.68	1.08	21.91	25.45	0.10	2.00	2.00	2.00
1.00	7	-0.73	0.95	-2.29	0.83	-1.97	0.96	-3.54	-0.39	23.78	1.09	21.99	25.56	0.19	1.91	1.91	1.91
0.0	7	-0.73	0.95	-2.29	0.83	-1.97	0.96	-3.54	-0.39	23.78	1.09	21.99	25.56	0.0	0.0	0.0	0.0
0.10	7	-0.85	0.90	-2.32	0.62	-1.88	0.74	-3.08	-0.67	23.74	1.16	21.84	25.64	0.16	0.16	0.16	0.16
0.20	7	-0.87	0.86	-2.29	0.55	-1.96	0.64	-3.33	-0.59	23.62	1.15	21.74	25.50	0.14	0.30	0.14	0.30
R 0.30	7	-0.92	0.75	-2.14	0.30	-2.04	0.78	-3.32	-0.75	23.47	1.11	21.65	25.29	0.18	0.48	0.18	0.48
E 0.40	7	-1.07	0.70	-2.21	0.07	-1.96	0.61	-2.96	-0.95	23.37	1.07	21.62	25.12	0.20	0.63	0.20	0.63
T 0.50	7	-1.11	0.58	-2.06	-0.16	-1.73	0.59	-2.70	-0.76	23.44	1.06	21.67	25.16	0.23	0.91	0.23	0.91
U 0.60	7	-1.03	0.64	-2.07	0.02	-1.47	0.53	-2.34	-0.60	23.51	1.08	21.75	25.28	0.29	1.20	0.29	1.20
R 0.70	7	-0.94	0.73	-2.14	0.27	-1.49	0.46	-2.24	-0.53	23.41	1.12	21.58	25.25	0.14	1.34	0.14	1.34
N 0.80	7	-1.09	0.75	-2.32	0.13	-1.38	0.50	-2.21	-0.56	23.37	1.12	21.53	25.21	0.19	1.53	0.19	1.53
O 0.90	7	-1.16	0.68	-2.27	-0.05	-1.33	0.55	-2.24	-0.43	23.37	1.05	21.65	25.10	0.09	1.62	0.09	1.62
1.00	7	-1.04	0.63	-2.07	-0.01	-1.35	0.70	-2.50	-0.19	23.32	1.00	21.68	24.95	0.13	1.75	0.13	1.75

LANDMARK - SUPRASTERNAL (3)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)				
		T SIZE, N	MEAN 5 PCT	95 PCT	SE	5 PCT	95 PCT	SE	5 PCT	95 PCT	SE	5 PCT	95 PCT	SE	5 PCT	95 PCT
0.0	F	2.65	1.42	0.32	4.98	-0.67	0.62	-2.01	0.68	22.48	0.88	21.03	23.92	0.0	0.0	0.0
0.10	F	2.60	1.39	0.33	4.88	-0.83	0.83	-2.19	0.53	22.54	0.93	21.01	24.07	0.18	0.18	0.18
0.20	F	2.43	1.48	-0.02	4.82	-0.94	0.85	-2.33	0.45	22.48	0.90	21.00	23.96	0.24	0.42	0.42
0.30	F	2.38	1.58	-0.21	4.96	-0.87	0.70	-2.02	0.28	22.39	0.86	20.98	23.80	0.12	0.12	0.53
0.40	R	2.52	1.49	0.07	4.97	-1.04	0.78	-2.32	0.25	22.52	0.80	21.21	23.82	0.25	0.78	0.78
0.50	R	2.64	1.50	0.18	5.11	-1.17	0.89	-2.62	0.28	22.59	0.82	21.26	23.93	0.20	0.98	0.98
0.60	A	2.70	1.43	0.35	5.05	-1.31	0.90	-2.19	0.16	22.67	0.85	21.27	24.08	0.17	1.16	1.16
0.70	R	2.80	1.16	0.89	4.70	-1.60	0.85	-2.99	-0.21	22.78	0.91	21.29	24.27	0.32	1.48	1.48
0.80	D	2.90	1.40	0.60	5.20	-1.84	0.54	-3.38	-0.29	22.81	0.91	21.31	24.30	0.26	1.74	1.74
0.90	N	2.83	1.54	0.29	5.36	-1.92	0.91	-3.41	-0.44	22.83	0.92	21.33	24.34	0.11	1.85	1.85
1.00	N	2.82	1.65	0.11	5.53	-2.00	0.64	-3.38	-0.63	22.95	1.01	21.29	24.61	0.14	2.00	2.00
0.0	U	2.82	1.65	0.11	5.53	-2.00	0.84	-3.38	-0.63	22.95	1.01	21.29	24.61	0.0	0.0	0.0
0.10	R	2.90	1.29	0.79	5.01	-1.54	0.92	-3.06	-0.03	22.89	1.05	21.18	24.61	0.47	0.47	0.47
0.20	R	3.08	1.32	0.92	5.24	-1.29	1.21	-3.07	0.70	22.78	0.96	21.21	24.36	0.33	0.80	0.80
0.30	R	2.95	1.32	0.79	5.11	-1.26	1.09	-3.05	0.53	22.68	0.87	21.26	24.10	0.17	0.97	0.97
0.40	E	2.62	1.41	0.30	4.93	-1.33	0.89	-2.78	0.12	22.64	0.90	21.16	24.11	0.34	1.31	1.31
0.50	T	2.55	1.42	0.22	4.89	-1.17	0.86	-2.59	0.24	22.62	0.90	21.14	24.14	0.17	1.48	1.48
0.60	U	2.65	1.42	0.33	4.98	-1.10	0.95	-2.66	0.45	22.66	0.93	21.14	24.18	0.13	1.60	1.60
0.70	R	2.60	1.54	0.08	5.11	-1.01	0.87	-2.43	0.41	22.60	0.88	21.15	24.04	0.12	1.72	1.72
0.80	N	2.46	1.53	-0.01	4.97	-0.81	0.78	-2.09	0.46	22.53	0.87	21.11	23.55	0.25	1.98	1.98
0.90	N	2.49	1.46	0.09	4.89	-0.71	0.79	-2.01	0.53	22.52	0.88	21.08	23.96	0.10	2.08	2.08
1.00	R	2.65	1.42	0.32	4.98	-0.67	0.82	-2.01	0.68	22.48	0.88	21.03	23.92	0.17	2.25	2.25

LANDMARK - LT ACROMION (5)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		T SIZE, N	MEAN 5 PCT	95 PCT	SE	5 PCT	95 PCT	MEAN 5 PCT	95 PCT	SE	5 PCT	95 PCT	MEAN 5 PCT	95 PCT	SE	5 PCT	95 PCT
0.0	F	0.46	0.83	1.83	6.71	0.65	5.64	7.78	22.79	1.07	21.04	24.53	0.0	0.0	0.0	0.0	0.0
0.10	F	0.22	0.96	-1.80	1.36	7.02	6.65	5.95	8.09	22.57	0.97	20.97	24.17	0.45	0.45	0.45	
0.20	F	0.31	1.00	-1.96	1.33	7.19	6.43	6.16	8.21	22.45	1.12	20.61	24.28	0.23	0.68	0.68	
0.30	F	0.27	1.12	-2.10	1.57	7.08	6.62	6.06	8.10	22.51	1.30	20.39	24.64	0.13	0.81	0.81	
0.40	R	0.25	1.15	-1.63	2.13	6.95	5.57	6.02	7.93	22.85	0.97	21.26	24.44	0.63	1.43	1.43	
0.50	W	0.69	1.22	-1.31	2.70	6.79	6.62	5.78	7.80	23.21	0.83	21.86	24.57	0.60	2.03	2.03	
0.60	A	1.00	1.24	-1.03	3.04	6.59	6.71	5.43	7.75	23.40	0.75	22.37	24.82	0.53	2.57	2.57	
0.70	R	1.35	1.18	-0.58	3.28	6.33	8.80	5.02	7.65	23.95	0.71	22.78	25.11	0.56	3.12	3.12	
0.80	D	1.66	1.21	-0.32	3.64	6.02	8.80	4.71	7.32	24.14	0.71	22.97	25.31	0.49	3.61	3.61	
0.90	N	1.61	1.20	-0.36	3.57	5.66	8.87	4.23	7.03	24.10	0.46	23.34	24.86	0.37	3.97	3.97	
1.00	N	1.57	1.22	-0.42	3.57	5.52	8.86	4.10	6.94	24.31	0.54	23.42	25.20	0.25	4.22	4.22	
0.0	F	1.57	1.22	-0.42	3.57	5.52	8.86	4.10	6.94	24.31	0.54	23.42	25.20	0.0	0.0	0.0	
0.10	F	0.74	0.92	-0.78	2.26	5.75	7.77	4.49	7.02	23.97	0.56	23.04	24.89	0.93	0.93	0.93	
0.20	F	0.50	1.01	-1.16	2.17	5.96	7.79	4.68	7.25	23.96	0.88	22.52	25.39	1.25	1.25	1.25	
0.30	F	0.22	0.92	-1.29	1.73	6.01	6.64	4.96	7.07	23.74	0.96	22.17	25.31	0.36	1.61	1.61	
0.40	E	0.08	0.87	-1.51	1.35	6.06	0.55	5.17	6.96	23.53	1.00	21.88	25.17	0.37	1.98	1.98	
0.50	T	-0.20	0.87	-1.63	1.22	6.20	0.62	5.18	7.22	23.34	1.02	21.71	25.04	0.24	2.22	2.22	
0.60	U	-0.36	0.84	-1.73	1.02	6.36	0.67	5.26	7.46	23.28	1.05	21.56	25.00	0.24	2.46	2.46	
0.70	R	-0.58	0.99	-2.20	1.03	6.44	0.77	5.18	7.70	23.24	1.07	21.48	25.00	0.24	2.70	2.70	
0.80	N	-0.71	1.06	-2.46	1.04	6.58	0.76	5.34	7.82	23.10	1.11	21.28	24.92	0.23	2.94	2.94	
0.90	N	-0.65	1.02	-2.32	1.02	6.71	0.67	5.61	7.82	22.98	1.12	21.14	24.82	0.19	3.13	3.13	
1.00	N	-0.46	1.03	-1.83	0.90	6.71	0.65	5.64	7.73	22.79	1.07	21.04	24.53	0.27	3.04	3.04	

LANDMARK - LT GRIP CENTER (17)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	18.27	0.31	17.76	18.78	10.18	0.59	9.21	11.15	12.86	0.38	12.24	13.48	0.0	0.0	0.0	0.0	
0.10	F	17.57	0.29	17.59	18.05	7.59	2.16	4.05	11.14	15.91	1.35	13.70	18.12	4.06	4.06	4.06	4.06	
0.20	O	17.41	1.41	15.09	19.72	4.78	3.28	-0.61	10.16	18.53	2.36	14.65	22.40	3.85	7.91	7.91	7.91	
0.30	R	15.87	0.94	14.33	17.41	-0.15	6.13	-10.20	9.90	23.40	3.55	17.57	29.22	7.10	15.00	15.00	15.00	
0.40	R	15.46	1.68	12.70	18.22	-0.90	0.68	-2.01	0.22	22.18	0.77	20.91	23.45	1.48	16.48	16.48	16.48	
0.50	W	16.12	0.0	16.32	16.22	-4.63	-4.63	-4.63	-4.63	22.54	0.0	22.51	22.51	3.84	20.33	20.33	20.33	
A	0.60	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
R	0.70	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
D	0.80	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
N	0.90	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.00	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.20	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
R	0.30	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
E	0.40	3	16.63	1.79	13.70	19.57	-0.03	1.49	-2.48	2.42	21.63	2.76	21.70	26.16	0.0	0.0	0.0	0.0
T	0.50	7	16.96	1.84	13.86	19.87	2.51	1.01	0.86	4.16	20.13	1.71	17.34	22.93	2.95	2.95	2.95	2.95
U	0.60	7	17.70	1.65	15.00	20.41	6.34	1.99	3.07	9.61	17.54	1.25	15.49	19.59	4.71	7.66	7.66	7.66
R	0.70	7	18.32	1.74	15.6	21.18	10.08	3.82	3.82	16.34	14.56	0.01	11.36	17.96	4.76	12.42	12.42	12.42
N	0.80	6	17.97	1.10	16.18	19.77	9.23	0.74	8.01	10.45	14.93	0.73	13.73	16.12	0.96	13.39	13.39	13.39
O	0.90	5	17.95	0.42	17.25	18.65	10.01	0.93	8.48	11.55	13.68	0.58	12.73	14.62	1.48	14.85	14.85	14.85
1.00	5	18.27	0.31	17.76	18.78	10.18	0.59	9.21	11.15	12.86	0.38	12.24	13.48	0.89	15.75	15.75	15.75	

LANDMARK - LT TROCHANTER (19)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	4.15	0.87	2.71	5.58	6.89	0.70	5.74	8.04	3.94	0.34	3.39	4.49	0.0	0.0	0.0	0.0	
0.10	F	4.14	0.78	2.85	5.42	6.88	0.63	5.82	7.85	3.94	0.30	3.45	4.44	0.06	0.06	0.12	0.12	
F	0.20	7	4.17	0.72	2.98	5.36	6.88	0.59	5.91	7.85	3.94	0.31	3.43	4.44	0.06	0.12	0.25	0.25
O	0.30	7	4.30	0.77	3.04	5.55	6.89	0.64	5.85	7.94	3.90	0.34	3.34	4.47	0.13	0.13	0.25	0.25
R	0.40	7	4.37	0.81	3.05	5.69	6.86	0.75	5.64	8.09	3.91	0.28	3.45	4.36	0.08	0.33	0.33	0.33
W	0.50	7	4.37	0.91	2.88	5.86	6.82	0.88	5.38	8.26	3.98	0.30	3.49	4.47	0.09	0.42	0.42	0.42
A	0.60	7	4.33	0.93	2.81	5.85	6.85	0.81	5.52	8.18	4.01	0.31	3.51	4.52	0.06	0.48	0.48	0.48
R	0.70	7	4.35	0.92	2.84	5.86	6.81	0.73	5.62	8.01	4.04	0.25	3.59	4.43	0.04	0.52	0.52	0.52
D	0.80	7	4.33	0.92	2.82	5.99	6.87	0.78	5.54	8.08	4.02	0.22	3.50	4.54	0.03	0.54	0.54	0.54
N	0.90	7	4.27	0.71	3.11	5.43	6.71	0.80	5.40	8.03	4.05	0.34	3.50	4.61	0.12	0.66	0.66	0.66
1.00	7	4.24	0.64	3.19	5.29	6.64	0.82	5.30	7.93	4.10	0.33	3.56	4.65	0.09	0.75	0.75	0.75	
0.0	7	4.24	0.64	3.19	5.29	6.64	0.82	5.30	7.99	4.10	0.33	3.56	4.65	0.0	0.0	0.0	0.0	
0.10	7	4.20	0.69	3.07	5.32	6.78	0.79	5.48	8.08	3.98	0.36	3.39	4.56	0.19	0.19	0.19	0.19	
R	0.20	7	4.26	0.71	3.09	5.42	6.81	0.73	5.61	8.01	3.92	0.34	3.36	4.48	0.09	0.28	0.28	0.28
R	0.30	7	4.27	0.72	3.09	5.45	6.74	0.70	5.60	7.89	3.94	0.29	3.46	4.41	0.07	0.35	0.35	0.35
E	0.40	7	4.19	2.94	0.74	5.01	6.73	0.63	5.70	7.76	3.97	0.30	3.48	4.45	0.09	0.44	0.44	0.44
T	0.50	7	4.18	0.72	2.99	5.37	6.70	0.68	5.59	7.81	3.94	0.29	3.46	4.42	0.04	0.48	0.48	0.48
U	0.60	7	4.20	0.71	3.03	5.37	6.67	0.73	5.48	7.87	3.92	0.30	3.43	4.42	0.04	0.51	0.51	0.51
R	0.70	7	4.19	0.79	2.91	5.49	6.70	0.70	5.54	7.85	3.96	0.28	3.49	4.42	0.04	0.42	0.42	0.42
N	0.80	7	4.19	0.90	2.72	5.66	6.82	0.74	5.60	8.03	3.94	0.29	3.47	4.41	0.12	0.68	0.68	0.68
O	0.90	7	4.19	0.90	2.72	5.67	6.90	0.74	5.70	8.11	3.93	0.31	3.42	4.44	0.09	0.76	0.76	0.76
1.00	7	4.15	0.87	2.71	5.58	6.89	0.70	5.74	7.94	3.94	0.34	3.49	4.49	0.05	0.75	0.75	0.75	

MVMT NO. 21260/13

LANDMARK - LT KNEE TOP (21)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
0.0	A	20.41	0.55	19.51	21.31	5.70	5.10	11.23	11.51	8.76	11.70	0.0	0.0	0.0	0.0		
0.0	B	20.52	0.44	19.80	21.25	5.78	0.75	4.55	7.01	11.31	1.49	8.87	13.75	0.16	0.16		
F	C	20.52	0.83	19.16	21.89	6.19	1.13	4.33	8.05	11.59	1.46	9.20	13.99	0.50	0.66		
D	E	20.43	0.72	19.25	21.60	6.28	0.91	4.74	7.72	11.55	1.55	14.08	14.08	0.11	0.77		
R	R	40	5	20.58	0.61	19.58	21.58	6.28	0.74	5.06	7.50	11.58	1.48	9.15	14.01	0.16	0.94
W	M	50	6	20.49	0.57	19.55	21.43	6.19	0.70	5.04	7.34	11.51	1.32	9.34	13.68	0.14	1.03
A	N	60	6	20.43	0.58	19.49	21.37	6.15	0.71	4.99	7.32	11.54	1.32	9.32	13.75	0.07	1.15
R	R	70	6	20.38	0.73	19.18	21.57	6.06	0.61	5.05	7.07	11.52	1.32	9.35	13.68	0.11	1.27
D	O	80	6	20.28	0.51	19.44	21.11	5.99	0.67	4.89	7.10	11.90	1.44	9.54	14.26	0.40	1.66
N	O	90	6	20.15	0.48	19.36	20.95	5.94	0.77	4.68	7.21	12.20	1.52	9.52	14.49	0.17	1.83
1.00	1.00	6	20.20	0.42	19.51	20.89	5.89	0.78	4.62	7.17	11.62	1.36	9.39	13.86	0.38	2.22	
0.0	0	6	20.20	0.42	19.51	20.89	5.89	0.78	4.62	7.17	11.62	1.36	9.39	13.86	0.0	0.0	
0.10	6	20.17	0.48	19.39	20.95	5.93	0.77	4.67	7.19	11.56	1.33	9.39	13.74	0.08	0.08		
0.20	6	20.17	0.56	19.25	21.10	5.80	0.82	4.45	7.15	11.56	1.29	9.45	13.68	0.13	0.21		
R	0.30	6	20.19	0.68	19.07	21.30	5.80	0.92	4.30	7.31	11.55	1.24	9.52	13.58	0.02	0.23	
E	0.40	6	20.20	0.51	19.37	21.04	5.91	0.83	4.55	7.28	11.54	1.23	9.52	13.56	0.11	0.34	
T	0.50	6	20.16	0.51	19.32	21.00	5.81	0.90	4.33	7.28	11.55	1.24	9.51	13.59	0.12	0.46	
U	0.60	6	20.13	0.54	19.24	21.02	5.68	0.95	4.13	7.24	11.55	1.25	9.50	13.61	0.12	0.58	
R	0.70	6	20.10	0.30	19.60	20.59	5.88	0.79	4.59	7.17	11.53	1.23	9.51	13.54	0.20	0.78	
N	0.80	4	19.98	0.24	19.64	20.91	5.67	0.53	4.81	6.54	11.28	1.30	9.14	13.42	1.13	1.35	
0.90	4	20.19	0.44	19.47	20.91	5.59	0.44	4.88	6.31	11.28	1.41	8.97	13.58	0.23	1.35		
1.00	4	20.41	0.55	19.51	21.31	5.70	0.36	5.10	6.29	11.23	1.51	8.76	13.70	0.24	1.60		

LANDMARK - LT SHOULDER CENTER (23)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE				
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	A	0.81	0.83	-0.55	2.16	7.41	0.58	6.47	8.36	21.23	0.69	19.90	22.16	0.0	0.0	
0.10	7	0.78	0.83	-0.66	2.23	7.06	0.62	6.05	8.08	20.84	0.50	20.02	21.66	0.40	0.40	
F	7	0.84	0.98	-0.77	2.44	6.85	0.71	5.69	8.01	20.80	0.51	19.97	21.64	0.22	0.62	
D	0.30	7	1.15	1.04	-0.56	2.85	6.79	0.65	5.72	7.86	20.96	0.54	20.06	21.85	0.35	0.98
R	0.40	7	1.70	0.95	0.14	3.26	6.69	0.75	5.46	7.91	21.23	0.46	20.46	21.99	0.62	1.60
W	0.50	7	2.24	1.00	0.60	3.88	6.53	0.89	5.07	7.99	21.51	0.49	20.71	22.31	0.63	2.23
A	0.60	7	2.61	1.10	0.81	4.42	6.24	0.99	4.61	7.87	21.81	0.58	20.87	22.76	0.56	2.79
R	0.70	7	3.06	0.88	1.61	4.51	5.98	1.18	4.05	7.92	22.16	0.58	21.21	23.12	0.62	3.41
D	0.80	7	3.20	1.04	1.04	5.81	4.91	1.81	4.43	7.18	22.28	0.56	21.36	23.20	0.26	3.67
N	0.90	7	3.17	1.13	1.32	5.01	5.57	0.84	4.20	6.95	22.47	0.64	21.52	23.53	0.31	3.97
1.00	7	3.23	1.20	1.26	5.20	5.44	0.98	3.83	7.05	22.69	0.76	21.44	23.94	0.26	4.24	
0.0	7	3.23	1.20	1.26	5.20	5.44	0.98	3.83	7.05	22.69	0.76	21.44	23.94	0.0	0.0	
0.10	7	2.41	1.08	0.64	4.18	5.85	0.57	4.91	6.79	22.41	0.67	21.32	23.51	0.95	0.95	
R	0.20	7	2.02	1.27	-0.07	4.11	5.96	0.60	4.98	6.95	22.22	0.68	21.11	23.33	0.45	1.41
R	0.30	7	1.82	1.20	-0.14	3.78	6.14	0.67	5.03	7.24	22.04	0.75	20.82	23.27	0.32	1.72
E	0.40	7	1.45	1.01	-0.21	3.11	6.37	0.58	5.42	7.32	21.85	0.77	20.58	23.12	0.48	2.20
T	0.50	7	1.08	0.64	0.02	2.13	6.65	0.53	5.78	7.52	21.67	0.75	20.44	22.91	0.50	2.70
U	0.60	7	1.04	0.80	-0.28	2.36	6.86	0.55	5.96	7.76	21.59	0.75	20.36	22.81	0.23	2.93
R	0.70	7	0.73	1.01	-0.95	2.36	6.97	0.59	6.01	7.93	21.43	0.81	20.11	22.75	0.39	3.32
N	0.80	7	0.48	0.90	-0.99	1.96	6.95	0.67	5.86	8.05	21.30	0.84	19.93	22.68	0.25	3.57
0.90	7	0.46	0.71	-0.71	1.62	7.06	0.76	5.80	8.31	21.23	0.82	19.48	22.58	0.13	2.70	
1.00	7	0.81	0.83	-0.55	2.16	7.41	0.58	6.47	8.36	21.23	0.82	19.69	22.16	0.54	4.24	

LANDMARK - LT ELBOW CENTER (25)

TIME	SAMPLE	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			MOVED
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	
0.0	T	5.35	0.69	4.21	6.49	1.27	0.69	11.14	13.39	1.51	10.78
0.10	F	6.02	0.71	4.86	7.18	10.86	0.69	9.72	11.99	12.49	2.21
0.20	R	6.88	0.86	5.47	8.29	9.81	1.04	8.10	11.52	12.70	8.86
0.30	E	8.05	1.55	5.51	10.59	8.12	0.54	7.24	11.22	1.76	9.43
0.40	A	9.76	2.17	6.20	13.32	6.17	1.22	4.17	13.74	1.76	10.85
0.50	W	10.39	1.14	8.52	12.26	4.70	0.16	4.03	14.94	2.14	11.44
0.60	A	10.91	1.10	9.10	12.72	2.81	0.47	2.04	15.63	1.46	18.44
0.70	R	11.09	1.08	9.31	12.86	1.40	0.70	0.25	16.58	1.30	18.02
0.80	D	11.13	1.14	9.25	13.01	0.60	0.50	-0.22	17.53	1.21	15.52
0.90	N	11.18	1.33	9.00	13.36	0.07	0.41	-0.59	0.74	1.43	15.65
1.00	W	11.13	1.26	9.06	13.20	-0.22	0.41	-0.90	0.46	1.40	15.56
0.0	F	6	11.13	1.26	9.06	13.20	-0.22	0.41	-0.90	0.59	14.44
0.10	R	6	11.05	1.47	8.64	13.47	1.81	1.00	0.17	3.44	17.55
0.20	R	7	10.62	1.67	7.89	13.35	4.00	1.57	3.71	6.58	16.97
0.30	R	7	9.72	2.12	6.25	13.20	6.16	1.49	3.71	8.60	16.13
0.40	E	8.06	2.20	4.45	11.67	8.55	1.62	5.90	1.21	14.60	2.26
0.50	T	7.47	1.05	5.75	9.19	9.33	0.96	7.77	10.90	14.45	10.88
0.60	U	6.50	0.91	5.00	8.00	10.63	1.10	8.83	12.43	14.30	11.21
0.70	R	6	5.67	1.07	3.92	7.42	11.42	1.11	9.60	13.24	13.78
0.80	N	6	5.26	0.97	3.68	6.85	11.95	1.00	10.31	13.59	13.61
0.90	W	6	5.35	0.87	3.81	6.67	12.24	0.84	10.86	13.61	14.47
1.00	W	6	5.69	4.21	6.49	12.27	0.69	11.14	13.39	13.25	11.51

LANDMARK - LT WRIST CENTER (27)

TIME	SAMPLE	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			MOVED
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	
0.0	T	15.00	0.36	14.40	15.60	10.90	0.86	9.49	12.31	0.44	12.07
0.10	F	14.48	0.50	13.66	15.30	9.52	1.47	7.11	11.94	14.51	1.35
0.20	R	14.13	0.83	12.78	15.49	7.14	1.42	4.81	9.47	16.61	1.46
0.30	D	14.57	1.98	11.33	17.81	4.60	0.51	3.76	5.43	18.76	0.76
0.40	R	13.32	1.17	11.40	15.25	0.96	0.54	0.08	1.85	19.95	0.59
0.50	W	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.60	A	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.70	R	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.80	D	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.90	W	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00	W	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	F	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.10	R	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.20	R	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.30	R	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.40	E	2	14.08	0.18	13.78	14.38	1.37	0.65	0.30	2.43	20.75
0.50	T	5	13.86	0.89	12.40	15.31	3.70	0.83	2.33	5.07	18.26
0.60	U	4	14.25	0.85	12.86	15.65	6.60	1.30	4.46	8.74	17.10
0.70	R	4	14.30	0.59	13.33	15.27	9.57	2.73	5.09	14.05	15.13
0.80	N	4	14.22	0.56	13.30	15.15	10.28	1.31	8.12	12.43	14.60
0.90	W	4	14.46	0.43	13.75	15.17	10.84	1.18	8.89	12.78	13.64
1.00	W	4	15.00	0.36	14.40	15.60	10.90	0.86	9.49	12.31	12.78

LANDMARK - LT GRIP CENTER (17)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					DISTANCE MOVED	INCR CUM
		SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN			
0.0	T	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	F	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	R	0	1.8 .36	1.8 .06	1.8 .06	1.8 .06	1.8 .13	1.8 .13	1.8 .13	1.8 .13	1.8 .13	1.8 .13	1.8 .13	1.8 .13	1.8 .13	1.8 .13	1.8 .13	
0.20	F	1	1.6 .55	0.6 .11	1.6 .37	1.6 .73	-0.08	1.19	-2.03	1.88	20.86	0.61	19.60	19.60	19.60	19.60	19.60	
0.20	R	0	1.5 .75	0.19	1.5 .43	1.6 .06	-4.08	0.61	-5.08	-3.08	21.96	0.37	21.36	22.56	22.56	22.56	22.56	
0.40	F	2	1.5 .25	0.18	1.4 .96	1.5 .54	-5.39	2.41	-9.34	-1.45	22.19	0.47	21.42	22.96	22.96	22.96	22.96	
0.40	R	2	1.4 .58	1.03	1.2 .89	1.6 .26	-7.17	1.59	-9.78	-4.56	22.37	0.71	20.91	23.23	23.23	23.23	23.23	
0.60	F	7	1.4 .26	1.77	1.1 .35	1.7 .17	-9.07	1.61	-11.70	-6.43	22.07	0.60	21.09	23.05	23.05	23.05	23.05	
0.60	R	7	1.4 .67	0.87	1.3 .24	1.6 .10	-11.05	1.27	-13.13	-3.97	22.08	0.45	21.34	22.82	22.82	22.82	22.82	
0.80	F	7	1.4 .70	0.27	1.4 .26	1.5 .14	-11.27	0.87	-12.69	-9.84	22.06	0.39	21.42	22.69	22.69	22.69	22.69	
0.80	R	7	1.4 .30	0.52	1.3 .45	1.5 .15	-11.36	0.56	-12.28	-10.45	21.99	0.27	21.55	22.43	22.43	22.43	22.43	
1.00	F	0	0.0	6	1.4 .30	0.52	13.45	15.15	-11.36	0.56	-12.28	-10.45	21.39	0.27	21.55	22.43	22.43	
1.00	R	0	0.0	5	1.4 .58	0.98	12.97	16.19	-9.77	0.46	-10.53	-9.01	22.19	0.50	21.37	23.02	23.02	
1.20	F	6	1.5 .00	1.32	1.2 .84	1.7 .16	-7.44	0.79	-8.75	-6.14	22.33	0.78	21.05	23.61	23.61	23.61	23.61	
1.20	R	6	1.5 .77	1.60	1.3 .14	1.8 .40	-4.35	-6.43	-2.28	22.10	1.19	20.14	24.05	24.05	24.05	24.05		
1.40	F	4	1.7 .14	1.39	1.4 .86	1.9 .42	-1.12	1.93	-6.29	2.05	20.71	0.39	20.07	21.35	21.35	21.35	21.35	
1.40	R	4	1.7 .63	0.96	1.6 .05	1.9 .21	2.54	2.63	-1.78	6.86	19.49	0.29	19.01	19.97	19.97	19.97	19.97	
1.60	F	1	1.8 .09	0.0	18.09	18.09	1.40	0.0	1.40	1.40	18.15	0.0	18.75	18.75	18.75	18.75	18.75	
1.60	R	1	1.8 .58	0.0	18.58	18.58	3.29	0.0	3.29	3.29	17.78	0.0	17.78	17.78	17.78	17.78	17.78	
1.80	F	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.80	R	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2.00	F	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
2.00	R	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

LANDMARK - LT WRIST CENTER (27)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					DISTANCE MOVED	INCR CUM
		SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN			
0.0	F	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	F	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	R	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.30	F	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.40	R	2	13.69	0.58	12.75	14.64	-2.68	0.70	-3.83	-1.53	20.15	0.11	19.97	20.33	20.33	20.33	20.33	
0.50	R	2	13.48	0.11	13.29	13.67	-7.61	4.47	-14.93	-0.28	21.20	0.59	20.23	22.17	22.17	22.17	22.17	
0.60	A	1	13.54	0.54	13.54	13.54	-3.25	0.0	-2.25	19.47	0.0	19.17	19.17	19.17	19.17	19.17	19.17	
0.70	R	2	12.93	0.47	12.16	13.69	-5.63	1.36	-7.87	-3.40	19.97	0.35	19.39	20.55	20.55	20.55	20.55	
0.80	D	2	12.82	0.21	12.48	13.17	-7.30	1.71	-10.10	-4.50	20.48	0.30	19.99	20.97	20.97	20.97	20.97	
0.90	R	2	12.54	0.26	12.11	12.97	-7.86	1.66	-10.59	-5.14	20.54	0.31	20.02	21.05	21.05	21.05	21.05	
1.00	R	2	12.16	0.45	11.45	12.90	-8.09	1.13	-9.95	-6.23	20.49	0.18	20.19	20.79	20.79	20.79	20.79	
0.0	F	2	12.16	0.45	11.42	12.90	-8.09	1.13	-9.95	-6.23	20.49	0.18	20.19	20.79	20.79	20.79	20.79	
0.10	F	2	12.24	0.19	11.92	12.56	-6.55	0.28	-7.01	-6.10	20.51	0.18	20.31	20.54	20.54	20.54	20.54	
0.20	R	4	13.27	1.09	11.48	15.06	-3.49	1.95	-6.69	-0.29	20.46	0.34	19.91	21.01	21.01	21.01	21.01	
0.30	R	4	13.96	1.33	11.77	16.14	0.48	4.41	-6.76	7.72	19.91	0.66	18.83	21.00	21.00	21.00	21.00	
0.40	E	2	13.90	0.34	13.34	14.47	-0.21	0.24	-0.61	0.19	19.00	1.38	16.73	21.26	21.26	21.26	21.26	
0.50	T	1	14.79	0.0	14.79	14.79	1.64	0.0	1.64	1.64	19.35	0.0	19.35	19.35	19.35	19.35	19.35	
0.60	U	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.70	R	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.80	N	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.90	O	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.00	O	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO HATCH RELEASE CONTROLLER AT +13.0, -13.0, +23.0 AND RETURNS. RIGHT HAND REMAINS AT SIDE-ARM CONTROLLER AT +15.0, -13.0, +4.8.

NOTE:

IN THE CASE OF MOVEMENT NUMBERS 21260 AND 22260 AT 13° BACK ANGLE, TWO SETS OF TABLES EACH FOR POINTS 17 AND 27 ARE PROVIDED. THIS IS BECAUSE THESE TWO POINTS WERE OBSTRUCTED IN VIEW FROM THE CAMERA AT LOCATIONS NEARER TO HATCH RELEASE CONTROL AND THEREFORE A SECOND SERIES OF PICTURES VIEWED FROM RIGHT HAND SIDE WAS TAKEN. THE DATA FROM THE SECOND SERIES FORM THE SET OF DATA MARKED WITH AN ASTERICK FOR THE POINTS 17 AND 27. THE USER IS ADVISED TO CONSULT BOTH THE SETS OF TABLES FOR THESE POINTS ONLY.

MOTION NUMBER - 2226Ü
BACK ANGLE - 13

SUB-MOVEMENT

TIME DATA			
	MEAN	STD DEV	RANGE
LEFT FWD	0.66	0.08	0.60 TO 0.80 SECS.
LEFT REV	0.66	0.10	0.50 TO 0.80 SECS.

LANDMARK - NASION

(1)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T SIZE,N	6.21	0.93	4.68	7.73	0.70	0.57	-0.89	2.28	29.17	0.92	27.66	30.67	0.0	0.0	0.0	0.0
0.10	F	5.73	1.34	3.52	7.93	-1.43	0.88	-2.86	0.01	29.80	0.99	28.24	31.48	2.29	2.29	2.29	2.29
0.20	R	5.34	1.24	3.31	7.37	-2.80	1.03	-4.00	-1.11	30.24	1.17	28.32	32.16	1.48	1.48	1.48	1.48
0.30	D	4.98	1.07	3.23	6.74	-3.30	1.31	-5.45	-1.16	30.28	1.18	28.35	32.21	0.62	0.62	0.62	0.62
0.40	N	4.93	1.13	3.08	6.79	-3.48	1.62	-6.12	-0.14	30.33	1.20	28.36	32.30	0.19	0.19	0.19	0.19
0.50	M	4.89	1.32	2.72	7.06	-3.54	1.69	-6.31	-0.77	30.39	1.20	28.42	32.36	0.09	0.09	0.09	0.09
A	0.60	4.85	1.39	2.57	7.13	-3.59	1.46	-5.98	-1.20	30.46	1.20	28.49	32.42	0.09	0.09	0.09	0.09
R	0.70	4.84	1.25	2.79	6.88	-3.61	1.44	-6.98	-1.25	30.52	1.19	28.52	32.53	0.07	0.07	0.07	0.07
D	0.80	4.75	1.16	2.85	6.66	-3.73	1.58	-6.31	-1.14	30.57	1.19	28.62	32.52	0.15	0.15	0.15	0.15
N	0.90	4.70	1.11	2.88	6.51	-3.88	1.59	-6.49	-1.27	30.56	1.21	28.58	32.54	0.17	0.17	0.17	0.17
1.00	T	4.75	0.77	3.49	6.00	-3.94	1.55	-6.48	-1.40	30.49	1.25	28.43	32.55	0.11	0.11	0.11	0.11
0.0	F	4.75	0.77	3.49	6.00	-3.94	1.55	-6.48	-1.40	30.49	1.25	28.43	32.55	0.0	0.0	0.0	0.0
0.10	R	5.32	0.96	3.75	6.89	-1.87	1.46	-4.26	0.53	29.99	1.24	27.95	32.03	2.21	2.21	2.21	2.21
0.20	D	5.78	1.21	3.78	7.77	-0.38	1.85	-3.42	2.66	29.43	1.12	27.60	31.26	1.65	1.65	1.65	1.65
0.30	N	5.97	1.33	3.78	8.15	-0.05	1.54	-2.58	2.48	29.11	1.06	27.37	30.84	0.50	0.50	0.50	0.50
0.40	M	5.93	1.28	3.84	8.03	0.02	1.50	-2.43	2.47	29.13	1.02	27.45	30.81	0.08	0.08	0.08	0.08
A	0.50	5.98	1.21	4.33	7.96	-0.04	1.43	-3.37	2.30	29.16	1.02	27.52	30.80	0.08	0.08	0.08	0.08
R	0.60	6.08	1.07	4.33	7.83	0.00	1.35	-2.21	2.22	29.18	1.02	27.51	30.85	0.11	0.11	0.11	0.11
D	0.70	6.09	0.92	4.57	7.60	0.15	1.37	-2.10	2.39	29.21	1.01	27.55	30.86	0.15	0.15	0.15	0.15
N	0.80	6.10	0.91	4.59	7.60	0.41	1.29	-1.71	2.52	29.22	1.00	27.58	30.86	0.26	0.26	0.26	0.26
O	0.90	6.14	0.91	4.64	7.63	0.56	1.12	-1.27	2.39	29.24	0.97	27.62	30.80	0.16	0.16	0.16	0.16
P	1.00	6.21	0.93	4.68	7.73	0.70	0.97	-0.89	2.28	29.17	0.92	27.66	30.67	0.16	0.16	0.16	0.16

(1)

LANDMARK - CERVICAL E

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T SIZE,N	-1.34	0.95	-2.90	0.22	-0.93	0.56	-1.84	-0.01	23.56	1.05	21.83	25.29	0.0	0.0	0.0	0.0	
0.10	F	-1.10	1.26	-3.26	1.36	-1.33	0.96	-2.71	0.06	23.47	0.88	22.03	24.92	0.47	0.47	0.47	0.47	
0.20	R	-1.05	1.41	-3.37	1.26	-1.59	1.12	-3.43	0.25	23.38	0.96	21.81	24.96	0.28	0.28	0.28	0.28	
0.30	D	-1.08	1.18	-3.40	1.04	-1.65	1.23	-3.66	0.37	23.42	0.99	21.70	24.96	0.15	0.15	0.15	0.15	
N	0.40	-1.13	1.28	-3.24	0.97	-1.64	1.20	-3.61	0.34	23.33	0.99	21.71	24.94	0.05	0.05	0.05	0.05	
O	0.50	-1.09	1.30	-3.22	1.03	-1.55	1.08	-3.33	0.22	23.36	0.95	21.80	24.92	0.10	0.10	0.10	0.10	
P	0.60	-0.85	1.40	-3.15	1.45	-1.70	1.10	-3.50	0.10	23.34	0.91	21.84	24.84	0.28	0.28	0.28	0.28	
A	0.70	-0.69	1.38	-2.95	1.57	-1.94	1.15	-3.83	0.05	23.33	0.93	21.79	24.86	0.29	0.29	0.29	0.29	
R	0.80	-0.73	1.49	-2.17	1.72	-2.04	1.21	-4.01	-0.06	23.39	0.89	21.93	24.86	0.12	0.12	0.12	0.12	
M	0.90	-0.62	1.18	-2.13	1.26	-2.20	1.23	-4.20	-0.06	23.36	0.89	22.00	24.91	0.15	0.15	0.15	0.15	
H	1.00	-0.57	1.52	-3.07	1.92	-2.22	1.34	-4.42	-0.03	23.36	0.88	22.12	25.01	0.15	0.15	0.15	0.15	
E	0.0	7	-0.57	1.52	-3.07	1.92	-2.22	1.34	-4.42	-0.03	23.36	0.88	22.12	25.01	0.0	0.0	0.0	0.0
O	0.10	7	-0.71	1.44	-3.07	1.65	-2.07	1.24	-4.07	0.03	23.49	0.94	21.95	25.04	0.22	0.22	0.22	0.22
P	0.20	7	-0.78	1.48	-3.21	1.66	-2.00	1.27	-4.07	0.03	23.43	1.01	21.78	25.09	0.11	0.11	0.11	0.11
R	0.30	7	-0.69	1.55	-3.24	1.86	-2.12	1.14	-3.99	-0.26	23.39	1.05	21.66	24.95	0.18	0.18	0.18	0.18
E	0.40	7	-0.85	1.45	-3.22	1.53	-2.07	1.08	-3.83	-0.30	23.32	1.00	21.80	24.93	0.34	0.34	0.34	0.34
T	0.50	7	-1.07	1.22	-3.07	0.94	-1.81	0.85	-3.21	-0.41	23.37	0.95	21.80	24.93	0.28	0.28	0.28	0.28
U	0.60	7	-1.16	1.01	-2.92	0.49	-1.59	0.61	-2.59	-0.60	23.49	1.03	21.81	25.17	0.26	0.26	0.26	0.26
R	0.70	7	-1.26	0.96	-2.83	0.30	-1.33	0.45	-2.06	-0.59	23.52	0.97	22.03	25.21	0.32	0.32	0.32	0.32
N	0.80	7	-1.31	0.95	-2.87	0.24	-1.12	0.49	-1.91	-0.32	23.66	0.98	22.05	25.27	0.22	0.22	0.22	0.22
O	0.90	7	-1.31	0.92	-2.81	0.20	-1.01	0.51	-1.84	-0.17	23.61	1.03	21.92	25.31	0.12	0.12	0.12	0.12
P	1.00	7	-1.34	0.95	-2.90	0.22	-0.93	0.56	-1.84	-0.01	23.56	1.05	21.83	25.29	0.10	0.10	0.10	0.10

(2)

LANDMARK - SUPRASTERNAL (3)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE, N	2.76	0.95	1.20	4.32	-0.43	0.98	-2.04	1.19	22.48	0.82	21.13	23.83	0.0	0.0	0.0	0.0	
0.0	7	2.71	0.45	1.97	3.44	-0.76	0.96	-2.33	0.82	22.48	0.82	21.08	23.87	0.33	0.33	0.33	0.33	
0.10	7	2.61	0.49	1.80	3.42	-1.06	1.19	-3.01	0.89	22.49	0.84	21.11	23.87	0.32	0.32	0.32	0.32	
F	0.20	7	2.50	0.40	1.83	3.16	-1.31	-1.33	0.83	22.52	0.86	21.12	23.93	0.27	0.93	0.27	0.93	
R	0.30	7	2.54	0.41	1.87	3.22	-1.33	-1.30	0.85	22.53	0.87	21.10	23.95	0.05	0.98	0.05	0.98	
R	0.40	7	2.62	0.46	1.88	3.37	-1.26	1.29	-3.38	0.86	22.55	0.74	21.34	23.76	0.11	1.08	0.11	1.08
W	0.50	7	2.60	0.38	1.96	3.21	-1.42	1.31	-3.58	0.73	22.63	0.81	21.31	23.95	0.18	1.27	0.18	1.27
A	0.60	7	2.60	0.34	2.06	3.16	-1.59	1.23	-3.60	0.43	22.72	0.86	21.31	24.14	0.19	1.46	0.19	1.46
R	0.70	7	2.60	0.48	1.95	3.53	-1.63	1.10	-3.44	0.18	22.79	0.89	21.33	24.26	0.16	1.62	0.16	1.62
D	0.80	7	2.74	0.52	1.91	3.61	-1.81	1.19	-3.75	0.14	22.87	0.90	21.39	24.34	0.20	1.81	0.20	1.81
N	0.90	7	2.62	0.48	1.83	3.41	-2.15	1.36	-4.38	0.08	22.94	0.84	21.56	24.32	0.38	2.19	0.38	2.19
1.00	7	2.62	0.42	1.83	3.41	-2.15	1.36	-4.38	0.08	22.94	0.84	21.56	24.32	0.38	2.19	0.38	2.19	
0.0	7	2.62	0.48	1.83	3.41	-2.15	1.36	-4.38	0.08	22.94	0.84	21.56	24.32	0.0	0.0	0.0	0.0	
0.10	7	2.62	0.50	1.80	3.44	-2.19	1.29	-3.93	0.30	22.91	0.94	21.36	24.45	0.34	0.34	0.34	0.34	
0.20	7	2.52	0.49	1.82	3.42	-1.58	1.30	-3.71	0.56	22.84	1.03	21.16	24.52	0.25	0.58	0.25	0.58	
R	0.30	7	2.61	0.41	1.94	3.29	-1.53	1.25	-3.59	0.53	22.74	1.06	21.00	24.47	0.11	0.70	0.11	0.70
E	0.40	7	2.45	0.45	1.72	3.19	-1.50	1.33	-3.68	0.68	22.69	0.91	21.11	24.09	0.91	0.91	0.91	0.91
T	0.50	7	2.60	0.67	1.67	3.70	-1.25	1.05	-2.98	0.48	22.55	0.84	21.17	23.93	0.30	1.21	0.30	1.21
U	0.60	7	2.85	0.84	1.46	4.23	-0.98	0.76	-2.23	0.27	22.56	0.82	21.21	23.91	0.36	1.57	0.36	1.57
U	0.70	7	2.87	0.86	1.46	4.29	-0.71	0.54	-1.59	0.18	22.54	0.78	21.27	23.82	0.28	1.84	0.28	1.84
R	0.80	7	2.77	0.94	1.94	4.32	-0.60	0.60	-1.55	0.35	22.59	0.81	21.26	23.92	0.15	2.00	0.15	2.00
N	0.90	7	2.74	0.95	1.98	4.30	-0.53	0.73	-1.73	0.67	22.57	0.82	21.22	23.92	0.08	2.08	0.08	2.08
0.90	7	2.76	0.95	1.95	4.32	-0.43	0.98	-2.04	0.19	22.48	0.82	21.13	23.83	0.14	2.21	0.14	2.21	
1.00	7	2.76	0.95	1.95	4.32	-0.43	0.98	-2.04	0.19	22.48	0.82	21.13	23.83	0.14	2.21	0.14	2.21	

LANDMARK - LT ACRMION (5)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE, N	0.81	0.95	-2.37	0.75	6.71	0.64	5.65	7.77	22.36	1.27	20.28	24.44	0.0	0.0	0.0	0.0	
0.0	5	-0.90	0.61	-1.96	0.89	-2.06	0.16	6.64	0.32	6.12	7.16	22.51	0.93	20.03	24.03	0.19	0.19	
0.10	5	-0.90	0.41	-1.91	0.91	-1.90	1.08	6.77	0.67	5.67	7.87	22.32	1.09	20.53	24.10	0.37	0.56	
F	0.20	6	-0.02	0.02	0.84	6.77	0.78	6.78	5.46	8.01	21.95	2.15	18.42	25.47	0.42	0.98	0.42	0.98
O	0.30	6	-0.02	0.02	0.94	6.73	0.78	6.65	5.59	6.68	7.62	22.86	0.77	21.59	24.12	0.99	1.97	
R	0.40	6	0.35	1.06	-1.39	2.10	6.60	0.45	5.87	7.33	23.26	0.83	21.91	24.62	0.55	2.53	0.55	2.53
W	0.50	6	0.68	0.96	-0.89	2.25	6.37	0.43	5.66	7.09	23.51	0.84	22.14	24.89	0.47	3.00	0.47	3.00
A	0.60	6	1.04	0.93	-0.49	2.57	6.20	0.46	5.44	6.96	23.71	0.90	22.24	25.18	0.45	3.44	0.45	3.44
R	0.70	6	1.35	0.95	-0.20	2.91	6.14	0.44	5.42	6.86	23.85	0.95	22.29	25.41	0.35	3.79	0.35	3.79
D	0.80	6	1.44	0.88	0.00	2.88	6.06	0.46	5.31	6.81	24.40	0.93	22.47	25.33	0.20	3.99	0.20	3.99
N	0.90	6	1.37	0.75	0.14	2.60	5.98	0.53	5.10	6.85	24.14	0.88	22.70	25.58	0.17	4.16	0.17	4.16
1.00	6	1.37	0.75	0.14	2.60	5.98	0.53	5.10	6.85	24.14	0.88	22.70	25.58	0.0	0.0	0.0	0.0	
0.0	6	1.37	0.75	0.14	2.60	5.98	0.53	5.10	6.85	24.14	0.88	22.70	25.58	0.0	0.0	0.0	0.0	
0.10	6	1.00	0.92	-0.50	2.51	6.00	0.34	5.44	6.56	24.30	0.91	22.50	25.49	0.40	0.40	0.40	0.40	
0.20	6	0.62	1.03	-1.07	2.31	6.04	0.43	5.34	6.74	23.80	0.99	22.18	25.42	0.43	0.83	0.43	0.83	
R	0.30	6	0.31	1.07	-1.45	2.07	6.10	0.62	5.09	7.11	23.60	1.03	21.91	25.28	0.37	1.21	0.37	1.21
E	0.40	6	0.02	1.05	-1.70	1.74	6.33	0.72	5.16	7.51	23.42	0.99	21.90	25.04	0.41	1.62	0.41	1.62
T	0.50	6	-0.14	0.94	-1.68	1.41	6.46	0.83	5.10	7.83	23.22	1.02	21.56	24.89	0.29	1.90	0.29	1.90
U	0.60	6	-0.30	0.94	-1.84	1.24	6.46	0.80	5.15	7.76	23.11	1.36	21.37	24.95	0.20	2.10	0.20	2.10
R	0.70	6	-0.46	1.07	-2.21	1.29	6.60	0.74	5.39	7.82	23.07	0.99	21.45	24.68	0.22	2.32	0.22	2.32
N	0.80	6	-0.55	1.05	-2.28	1.18	6.79	0.80	5.48	8.10	23.31	0.95	21.45	24.57	0.21	2.53	0.21	2.53
0.90	5	-0.77	1.04	-2.48	0.94	6.65	0.64	5.61	7.70	22.62	0.98	21.02	24.22	0.47	3.00	0.47	3.00	
1.00	5	-0.81	0.95	-2.37	0.75	6.71	0.64	5.65	7.77	22.36	1.27	20.28	24.44	0.27	3.27	0.27	3.27	

LANDMARK - LT GRIP CENTER (17)

TIME	SAMPLE SIZE, N	CO-ORDINATE X					CO-ORDINATE Y					CO-ORDINATE Z						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	6	18.14	0.27	17.70	18.58	10.09	0.44	9.87	10.82	12.05	0.42	12.15	13.54	0.0	0.0	0.0	0.0	
0.10	6	18.08	0.79	16.79	19.37	7.65	2.17	4.09	11.20	15.44	1.32	13.27	17.60	3.56	0.0	0.0	0.0	
F 0.20	5	17.24	0.42	16.45	17.94	4.12	3.81	2.12	10.37	18.41	2.61	14.02	22.60	4.62	8.19	3.56	3.56	
O 0.30	5	16.30	0.47	15.53	17.07	-0.19	4.64	-0.79	7.41	21.22	3.73	15.10	27.33	5.28	13.47	5.28	13.47	
R 0.40	3	15.37	0.86	13.95	16.78	-2.30	1.83	-5.30	0.70	20.97	2.85	16.30	25.63	2.33	15.80	2.33	15.80	
W 0.50	3	15.69	1.01	14.03	17.35	-2.54	2.45	-6.55	0.47	20.53	2.42	16.56	24.49	0.60	16.39	0.60	16.39	
A 0.60	1	16.89	0.0	14.89	14.89	-6.84	0.0	-6.84	-6.84	22.72	0.0	22.72	22.72	4.89	21.29	4.89	21.29	
R 0.70	1	14.56	0.0	14.56	14.56	-8.32	0.0	-8.32	-8.32	22.93	0.0	22.93	22.93	1.53	22.82	1.53	22.82	
D 0.80	1	14.23	0.0	14.23	14.23	-9.23	0.0	-9.23	-9.23	23.02	0.0	23.02	23.02	0.97	23.79	0.97	23.79	
O 0.90	1	14.09	0.0	14.09	14.09	-9.72	0.0	-9.72	-9.72	23.08	0.0	23.08	23.08	0.52	24.30	0.52	24.30	
1.00	1	14.19	0.0	14.19	14.19	-9.78	0.0	-9.78	-9.78	23.14	0.0	23.14	23.14	0.13	24.43	0.13	24.43	
0.0	1	14.19	0.0	14.19	14.19	-9.78	0.0	-9.78	-9.78	23.14	0.0	23.14	23.14	0.0	0.0	0.0	0.0	
0.10	1	13.64	0.0	13.64	13.64	-8.13	0.0	-8.13	-8.13	23.19	0.0	23.19	23.19	1.74	1.74	1.74	1.74	
0.20	1	12.99	0.0	12.99	12.99	-6.26	0.0	-6.26	-6.26	23.04	0.0	23.04	23.04	3.72	3.72	3.72	3.72	
R 0.30	2	14.37	1.45	11.98	16.75	-2.41	1.35	-4.63	-0.19	22.49	0.22	22.49	22.49	4.13	7.85	4.13	7.85	
E 0.40	4	16.03	1.03	1.18	14.09	17.97	1.07	1.03	0.62	2.76	20.68	1.10	18.88	22.48	4.26	12.11	4.26	12.11
T 0.50	5	16.53	0.98	14.93	18.14	3.80	0.83	2.45	5.15	18.89	1.05	17.18	20.61	3.31	15.42	3.31	15.42	
U 0.60	5	17.11	0.89	15.89	15.64	6.32	0.69	5.18	7.45	17.18	0.99	15.55	18.80	3.10	18.51	3.10	18.51	
R 0.70	5	17.61	0.66	16.52	18.70	8.16	0.39	7.66	8.66	15.57	1.01	13.92	17.22	2.50	21.01	2.50	21.01	
N 0.80	6	18.14	0.71	16.97	19.31	9.48	0.29	9.00	9.95	14.45	0.92	12.94	15.76	1.81	22.82	1.81	22.82	
O 0.90	6	18.17	0.38	17.56	18.79	9.94	0.40	9.29	10.60	13.54	0.72	12.36	14.72	1.02	23.84	1.02	23.84	
1.00	6	18.14	0.27	17.70	18.58	10.09	0.44	9.37	10.82	12.85	0.42	12.15	13.54	0.71	24.55	0.71	24.55	

LANDMARK - LT TROCHANTER (19)

TIME	SAMPLE SIZE, N	CO-ORDINATE X					CO-ORDINATE Y					CO-ORDINATE Z					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	4.31	0.76	3.06	5.57	6.84	0.61	5.85	7.84	3.91	0.38	3.28	4.54	0.0	0.0	0.0	0.0
0.10	7	4.37	0.67	3.27	5.48	6.77	0.76	5.53	8.01	3.95	0.36	3.36	4.54	0.10	0.10	0.10	0.10
F 0.20	7	4.42	0.62	3.42	5.43	6.69	0.81	5.36	8.01	3.93	0.37	3.32	4.54	0.20	0.20	0.20	0.20
O 0.30	7	4.45	0.56	3.53	5.37	6.67	0.60	5.68	7.65	3.88	0.33	3.33	4.42	0.06	0.06	0.27	0.27
R 0.40	7	4.42	0.61	3.43	5.42	6.71	0.61	5.71	7.71	3.92	0.37	3.31	4.52	0.07	0.33	0.07	0.33
W 0.50	7	4.37	0.77	3.10	5.64	6.73	0.73	5.52	7.93	3.97	0.41	3.31	4.64	0.08	0.41	0.08	0.41
A 0.60	7	4.30	0.60	3.31	5.28	6.56	0.89	5.10	8.01	4.01	0.37	3.41	4.62	0.19	0.60	0.19	0.60
R 0.70	7	4.29	0.53	3.43	5.45	6.91	0.97	7.95	4.00	0.35	3.42	4.58	0.10	0.70	0.10	0.70	
D 0.80	7	4.41	0.66	3.33	5.49	6.65	0.73	5.45	7.85	3.96	0.31	3.45	4.47	0.23	0.93	0.23	0.93
O 0.90	7	4.49	0.70	3.34	5.64	6.68	0.68	5.56	7.80	3.97	0.32	3.45	4.49	0.09	1.02	0.09	1.02
1.00	7	4.47	0.67	3.37	5.57	6.58	0.73	5.38	7.78	3.96	0.37	3.35	4.56	0.10	1.12	0.10	1.12
0.0	7	4.47	0.67	3.37	5.57	6.58	0.73	5.38	7.78	3.96	0.37	3.35	4.56	0.0	0.0	0.0	0.0
0.10	7	4.53	0.66	3.45	5.62	6.57	0.76	5.32	7.82	3.97	0.35	3.38	4.55	0.06	0.06	0.06	0.06
0.20	7	4.53	0.70	3.38	5.69	6.61	0.81	5.28	7.93	3.98	0.36	3.40	4.57	0.04	0.10	0.04	0.10
R 0.30	7	4.44	0.71	3.26	5.61	6.71	0.82	5.36	8.06	3.98	0.35	3.41	4.56	0.14	0.25	0.14	0.25
E 0.40	7	4.39	0.71	3.23	5.55	6.74	0.81	5.41	8.08	3.97	0.34	3.42	4.53	0.06	0.30	0.06	0.30
T 0.50	7	4.41	0.65	3.34	5.47	6.78	0.80	5.48	8.09	3.97	0.34	3.42	4.52	0.04	0.34	0.04	0.34
U 0.60	7	4.34	0.68	3.22	5.46	6.76	0.79	5.45	8.06	3.96	0.36	3.40	4.55	0.07	0.42	0.07	0.42
R 0.70	7	4.36	0.76	3.12	5.60	6.74	0.85	5.35	8.14	3.97	0.35	3.39	4.55	0.03	0.44	0.03	0.44
N 0.80	7	4.40	0.76	3.15	5.65	6.75	0.86	5.33	8.16	3.99	0.37	3.37	4.60	0.04	0.48	0.04	0.48
O 0.90	7	4.36	0.71	3.19	5.53	6.79	0.71	5.62	7.96	3.94	0.35	3.37	4.52	0.07	0.56	0.07	0.56
1.00	7	4.31	0.76	3.06	5.57	6.84	0.61	5.85	7.84	3.91	0.38	3.28	4.54	0.08	0.64	0.08	0.64

LANDMARK - LT KNEE TOP (21)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T SIZE, N	20.43	0.46	19.68	21.18	0.61	6.14	4.65	7.64	11.55	1.47	9.14	13.95	0.0	0.0	0.0	0.0	
0.10	5	20.36	0.53	19.49	21.23	0.73	6.05	4.85	7.25	11.56	1.45	9.19	13.93	0.12	0.12	0.12	0.12	
F 0.20	6	20.31	0.52	19.46	21.17	0.64	5.64	0.80	4.33	6.95	11.64	1.29	9.53	13.75	0.42	0.42	0.42	0.54
R 0.30	6	20.36	0.49	19.56	21.16	0.61	5.61	0.79	4.32	6.91	11.65	1.30	9.51	13.79	0.06	0.06	0.06	0.60
R 0.40	6	20.32	0.49	19.53	21.12	0.63	5.59	0.73	4.22	6.95	11.63	1.29	9.52	13.74	0.05	0.05	0.05	0.65
W 0.50	6	20.27	0.45	19.53	21.01	0.60	5.60	0.92	4.09	7.12	11.63	1.25	9.58	13.68	0.06	0.06	0.06	0.70
A 0.60	5	20.22	0.52	19.37	21.07	0.84	5.84	0.71	4.67	7.00	11.55	1.37	9.37	13.79	0.25	0.25	0.25	0.96
R 0.70	5	20.25	0.54	19.64	21.13	0.81	5.81	0.69	4.68	6.94	11.55	1.41	9.24	13.86	0.04	0.04	0.04	1.00
U 0.80	5	20.36	0.44	19.64	21.08	0.88	5.88	0.67	4.79	6.98	11.56	1.43	9.21	13.91	0.13	0.13	0.13	1.13
O 0.90	5	20.34	0.45	19.60	21.08	0.92	5.92	0.66	4.84	7.00	11.57	1.41	9.26	13.89	0.04	0.04	0.04	1.17
N 1.00	5	20.21	0.61	19.20	21.22	0.84	5.84	0.71	4.67	7.01	11.56	1.39	9.29	13.84	0.15	0.15	0.15	1.32
0.0	5	20.21	0.61	19.20	21.22	0.84	5.84	0.71	4.67	7.01	11.56	1.39	9.29	13.84	0.0	0.0	0.0	0.0
0.10	5	20.32	0.45	19.58	21.06	0.62	5.79	0.62	4.78	6.80	11.55	1.40	9.26	13.84	0.12	0.12	0.12	0.20
0.20	5	20.31	0.48	19.52	21.10	0.63	5.71	0.63	4.68	6.75	11.54	1.42	9.23	13.90	0.08	0.08	0.08	0.34
R 0.30	5	20.18	0.62	19.16	21.20	0.70	5.70	0.73	4.51	6.89	11.61	1.45	9.23	13.99	0.14	0.14	0.14	0.62
E 0.40	5	20.31	0.54	19.43	21.19	0.74	5.95	0.74	4.74	7.16	11.63	1.43	9.29	13.97	0.28	0.28	0.28	0.72
T 0.50	5	20.40	0.50	19.49	21.31	0.78	5.95	0.78	4.68	7.23	11.60	1.42	9.28	13.93	0.09	0.09	0.09	0.75
U 0.60	5	20.37	0.54	19.49	21.26	0.95	5.95	0.80	4.64	7.25	11.61	1.48	9.18	14.04	0.03	0.03	0.03	0.75
R 0.70	5	20.29	0.60	19.30	21.28	0.75	6.15	0.79	4.83	7.45	11.53	1.41	9.22	13.84	0.24	0.24	0.24	0.98
N 0.80	5	20.30	0.64	19.25	21.35	0.82	6.18	0.82	4.83	7.53	11.50	1.36	9.26	13.73	0.04	0.04	0.04	1.03
O 0.90	5	20.36	0.59	19.40	21.33	0.71	6.11	0.91	4.61	7.61	11.54	1.45	9.15	13.92	0.10	0.10	0.10	1.13
1.00	5	20.43	0.46	19.68	21.18	0.91	6.14	0.91	4.64	7.64	11.55	1.47	9.14	13.95	0.08	0.08	0.08	1.21

LANDMARK - LT SHOULDER CENTER (23)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T SIZE, N	1.32	1.17	-0.59	3.24	7.21	1.29	5.09	9.33	21.05	0.58	20.09	22.00	0.0	0.0	0.0	0.0
0.10	6	0.91	0.60	-0.07	1.89	6.97	0.72	5.80	8.14	21.00	0.37	20.40	21.60	0.49	0.49	0.49	0.49
F 0.20	7	0.62	0.41	-0.06	1.29	6.84	0.57	5.92	7.77	20.85	0.58	19.90	21.80	0.35	0.35	0.35	0.84
R 0.30	7	0.85	0.50	0.02	1.68	6.62	0.48	5.84	7.41	21.03	0.58	20.07	21.99	0.37	0.37	1.20	1.20
E 0.40	7	1.52	0.82	0.17	2.87	6.74	0.58	5.79	7.69	21.21	0.55	20.31	22.11	0.70	0.70	1.91	1.91
W 0.50	7	1.98	0.94	0.44	3.51	6.68	0.56	5.76	7.60	21.40	0.50	20.58	22.21	0.50	0.50	2.41	2.41
A 0.60	7	2.31	0.75	1.08	3.55	6.17	0.54	5.28	7.07	21.55	0.59	20.68	22.63	0.65	0.65	3.06	3.06
R 0.70	7	2.68	0.88	1.24	4.12	5.84	0.49	5.05	6.64	21.84	0.78	20.56	23.13	0.53	0.53	3.59	3.59
D 0.80	7	2.88	0.75	1.65	4.11	5.75	0.43	5.03	6.46	21.94	0.81	20.61	23.27	0.24	0.24	3.83	3.83
O 0.90	7	2.93	0.78	1.65	4.26	5.64	0.47	4.86	6.41	22.11	0.78	20.83	23.39	0.21	0.21	4.04	4.04
1.00	7	2.97	0.97	1.38	4.57	5.43	0.67	4.32	6.53	22.23	0.78	20.94	23.51	0.05	0.05	0.05	0.05
0.0	7	2.97	0.97	1.38	4.57	5.43	0.67	4.32	6.53	22.23	0.78	20.94	23.51	0.0	0.0	0.0	0.0
0.10	7	2.54	1.20	0.57	4.51	5.71	0.48	4.92	6.49	22.08	0.68	20.96	23.20	0.54	0.54	0.54	0.54
0.20	7	2.12	1.28	0.02	4.22	5.84	0.59	4.88	6.81	21.87	0.72	20.69	23.05	0.48	0.48	1.02	1.02
R 0.30	7	1.88	1.04	0.18	3.59	5.99	0.73	4.79	7.19	21.65	0.74	20.44	22.86	0.36	0.36	1.38	1.38
E 0.40	7	1.45	0.77	0.18	2.72	6.36	0.64	5.31	7.40	21.50	0.75	22.73	0.59	1.97	1.97	1.97	1.97
T 0.50	7	1.17	0.78	-0.11	2.46	6.54	0.47	5.76	7.32	21.37	0.80	20.07	22.68	0.35	0.35	2.32	2.32
U 0.60	7	0.98	0.86	-0.43	2.40	6.76	0.41	6.09	7.43	21.30	0.80	19.98	22.62	0.30	0.30	2.62	2.62
R 0.70	7	0.75	0.52	-0.77	2.26	7.12	0.56	6.20	8.03	21.22	0.73	20.03	22.42	0.44	0.44	3.06	3.06
N 0.80	6	0.88	0.97	-0.72	2.48	7.32	0.57	6.38	8.26	21.29	0.69	20.16	22.42	0.25	0.25	3.31	3.31
O 0.90	6	1.14	0.96	-0.43	2.71	7.24	0.82	5.90	8.58	21.19	0.66	20.11	22.27	0.29	0.29	3.60	3.60
1.00	6	1.32	1.17	-0.59	3.24	7.21	1.29	5.09	9.33	21.05	0.58	20.09	22.00	0.84	0.84	3.84	3.84

LANDMARK - LT ELCM CENTER (25)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)							
		T	SIZE,N	MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	
0.0	F	5.36	0.55	4.47	0.26	4.20	0.59	11.42	13.37	12.99	1.62	10.33	15.65	0.0	0.0	0.0	0.0	0.0	
0.10	F	5.53	0.64	4.48	0.58	11.28	0.42	10.60	11.97	12.51	1.52	10.12	15.10	1.19	1.19	1.19	1.19	1.19	
0.20	F	6.18	0.77	4.92	7.44	10.02	0.63	8.99	11.05	12.72	1.52	10.22	15.21	1.42	2.61	2.61	2.61	2.61	
0.30	F	7.55	1.01	5.90	9.20	8.66	0.80	7.34	9.98	13.43	1.54	10.90	15.96	2.05	4.67	4.67	4.67	4.67	
0.40	R	9.02	1.25	6.96	11.07	6.83	1.55	4.29	9.37	16.46	1.73	11.63	17.29	2.56	7.23	7.23	7.23	7.23	
0.50	H	10.32	1.44	7.96	12.69	4.73	2.48	0.66	8.80	15.55	2.16	12.01	19.10	2.71	9.94	9.94	9.94	9.94	
0.60	A	10.63	0.96	9.06	12.19	3.28	1.26	1.22	5.34	16.24	1.70	13.46	19.02	1.63	1.57	1.57	1.57	1.57	
0.70	R	11.06	1.13	9.20	12.91	1.62	1.21	-0.36	3.61	17.00	1.57	14.44	19.57	1.87	1.44	1.44	1.44	1.44	
0.80	D	11.14	1.07	9.38	12.91	0.79	1.03	-0.90	2.47	17.48	1.33	15.30	19.65	0.97	1.44	1.44	1.44	1.44	
0.90	N	11.13	1.00	9.49	12.77	0.47	0.81	-0.85	1.79	17.88	1.24	15.84	19.91	0.51	1.42	1.42	1.42	1.42	
1.00	E	11.08	0.89	9.62	12.53	0.22	0.58	-0.73	1.18	17.93	1.22	15.94	19.93	0.26	15.18	15.18	15.18	15.18	
0.0	F	6.11	1.38	0.89	9.62	12.53	0.22	0.58	-0.73	1.18	17.93	1.22	15.94	19.93	0.0	0.0	0.0	0.0	0.0
0.10	F	10.97	1.13	9.12	12.82	1.30	0.75	0.07	2.53	17.63	1.21	15.65	19.61	1.12	1.12	1.12	1.12	1.12	
0.20	F	10.66	1.27	8.59	12.74	3.24	1.19	1.29	5.18	16.86	1.64	14.17	19.54	2.11	3.23	3.23	3.23	3.23	
0.30	R	10.01	1.59	7.41	14.62	5.60	1.46	3.21	7.99	15.91	1.98	12.66	19.15	2.63	5.86	5.86	5.86	5.86	
0.40	E	8.93	1.90	5.81	12.05	7.66	1.46	5.26	10.06	15.21	1.97	11.98	18.43	2.43	8.29	8.29	8.29	8.29	
0.50	T	7.35	1.84	4.34	10.37	9.40	1.23	7.38	11.42	14.03	2.00	10.74	17.32	2.62	10.92	10.92	10.92	10.92	
0.60	U	6.19	1.42	3.86	8.52	10.84	1.58	8.25	13.43	13.61	1.70	10.83	16.39	1.90	12.81	12.81	12.81	12.81	
0.70	R	5.35	0.83	3.99	6.71	12.09	2.37	8.20	15.98	13.18	1.60	10.55	15.82	1.57	1.38	1.38	1.38	1.38	
0.80	N	5.49	0.90	4.01	6.97	11.97	0.74	10.76	13.19	13.33	1.66	10.61	16.06	0.23	1.61	1.61	1.61	1.61	
0.90	E	5.35	0.71	4.18	6.52	12.23	0.70	11.08	13.38	13.19	1.62	10.54	15.84	0.33	1.44	1.44	1.44	1.44	
1.00	F	5.36	0.55	4.47	6.26	12.40	0.59	11.42	13.37	12.99	1.62	10.33	15.65	0.26	15.20	15.20	15.20	15.20	

LANDMARK - LT WRIST CENTER (27)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		T	SIZE,N	MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT
0.0	F	15.50	0.73	10.70	16.70	10.81	0.79	9.51	12.11	12.50	0.80	11.19	13.81	0.0	0.0	0.0	0.0	0.0
0.10	F	15.06	0.45	14.33	15.79	8.75	1.47	6.33	11.16	14.50	1.46	12.21	16.98	2.98	2.98	2.98	2.98	2.98
0.20	F	14.33	0.39	13.69	14.98	5.93	1.46	3.54	8.33	16.69	1.73	13.85	19.53	3.58	6.55	6.55	6.55	6.55
0.30	R	14.03	0.24	13.64	14.43	2.86	1.54	0.34	5.39	18.69	2.15	15.16	22.21	3.68	10.23	10.23	10.23	10.23
0.40	R	13.90	0.61	13.89	14.90	2.55	2.55	-2.78	5.59	18.20	1.42	15.88	20.52	1.54	11.77	11.77	11.77	11.77
0.50	H	13.96	0.41	13.96	14.62	-0.43	2.63	-4.73	3.88	18.85	2.12	15.38	22.33	1.94	13.72	13.72	13.72	13.72
0.60	A	13.96	0.0	13.96	13.96	-4.64	0.0	-4.64	-4.64	21.12	0.0	21.12	21.12	4.79	1.87	1.87	1.87	1.87
0.70	R	13.44	0.0	13.44	13.44	-6.55	0.0	-6.55	-6.55	21.59	0.0	21.59	21.59	2.03	20.54	20.54	20.54	20.54
0.80	D	13.44	0.0	13.46	13.46	-6.99	0.0	-6.99	-6.99	21.52	0.0	21.62	21.62	0.45	20.99	20.99	20.99	20.99
0.90	N	13.46	0.0	13.80	13.80	-6.70	0.0	-6.70	-6.70	21.59	0.0	21.59	21.59	0.13	21.12	21.12	21.12	21.12
1.00	E	13.80	0.0	13.80	13.80	-6.70	0.0	-6.70	-6.70	21.59	0.0	21.59	21.59	0.44	21.55	21.55	21.55	21.55
0.0	F	13.80	0.0	13.80	13.80	-6.70	0.0	-6.70	-6.70	21.59	0.0	21.59	21.59	0.0	0.0	0.0	0.0	0.0
0.10	F	13.26	0.0	13.26	13.26	-5.64	0.0	-5.44	-5.44	21.59	0.0	21.49	21.49	1.37	1.37	1.37	1.37	1.37
0.20	F	12.68	0.0	12.68	12.68	-3.83	0.0	-3.83	-3.83	21.59	0.0	21.11	21.11	1.76	3.13	3.13	3.13	3.13
0.30	R	12.89	0.31	12.39	13.39	-0.23	1.75	-3.10	-2.65	20.32	0.19	19.71	20.32	3.77	6.53	6.53	6.53	6.53
0.40	E	14.00	0.90	12.53	15.47	2.71	1.27	0.63	4.78	18.16	0.85	17.36	20.16	3.38	10.28	10.28	10.28	10.28
0.50	T	14.03	0.98	12.42	15.64	4.88	1.12	3.05	6.72	16.94	1.73	14.10	19.77	2.84	13.12	13.12	13.12	13.12
0.60	U	14.48	0.47	13.70	15.25	6.38	1.98	3.14	9.63	16.82	1.69	14.59	19.59	1.57	14.59	14.59	14.59	14.59
0.70	R	14.79	0.43	14.08	15.50	9.30	1.01	7.64	10.95	14.79	1.24	12.76	16.82	3.56	18.25	18.25	18.25	18.25
0.80	N	15.21	0.55	14.30	16.11	11.26	3.09	6.19	9.19	13.39	2.18	9.82	16.95	2.45	20.73	20.73	20.73	20.73
0.90	F	15.27	0.53	14.41	16.13	10.54	0.81	9.21	11.87	13.32	1.10	11.52	15.12	0.72	21.42	21.42	21.42	21.42
1.00	F	15.50	0.73	14.30	16.70	10.81	0.79	9.51	12.11	12.50	0.80	11.19	13.81	0.90	22.32	22.32	22.32	22.32

LANDMARK - LT GRIP CENTER

(17)

TIME	SAMPLE SIZE,N	(- - - - - X - CO-ORDINATE - - - - -)					(- - - - - Y - CO-ORDINATE - - - - -)					(- - - - - Z - CO-ORDINATE - - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F 0.20	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
O 0.30	1	17.45	0.0	17.45	17.45	17.45	2.79	0.0	2.79	2.79	18.80	0.0	18.80	18.80	0.0	0.0	0.0
R 0.40	5	15.78	0.60	14.80	16.77	-1.51	1.37	-3.76	0.74	20.26	1.16	18.36	22.16	4.83	4.83	4.83	4.83
W 0.50	6	15.45	1.06	13.72	17.18	-5.22	1.78	-8.14	-2.30	21.30	0.99	19.67	22.93	3.87	3.87	3.87	3.87
A 0.60	7	14.94	0.93	13.40	16.47	-7.65	1.77	-10.56	-4.75	21.93	0.83	20.57	23.30	8.70	8.70	8.70	8.70
R 0.70	7	14.64	0.75	13.41	15.87	-9.31	1.25	-11.35	-7.26	21.93	0.56	21.01	22.84	1.27	1.27	1.27	1.27
D 0.80	7	14.64	0.81	13.30	15.97	-10.49	0.70	-11.63	-9.35	21.84	0.54	20.96	22.72	1.68	1.68	1.68	1.68
O 0.90	7	14.45	0.52	13.59	15.30	-10.92	0.50	-11.74	-10.11	21.78	0.44	21.07	22.49	1.18	1.18	1.18	1.18
N 1.00	6	14.35	0.51	13.52	15.19	-11.20	0.47	-11.97	-10.43	21.01	0.38	21.01	22.27	0.48	14.61	14.61	14.61
O 0.0	6	14.35	0.51	13.52	15.19	-11.20	0.47	-11.97	-10.43	21.01	0.38	21.01	22.27	0.48	14.93	14.93	14.93
O 0.10	6	14.91	0.66	13.83	16.00	-9.78	1.43	-12.13	-7.42	21.01	17.72	21.32	22.27	0.0	0.0	0.0	0.0
O 0.20	6	15.29	1.29	14.07	16.51	-7.22	1.65	-9.93	-4.51	20.76	2.55	16.59	24.97	1.64	1.64	1.64	1.64
R 0.30	7	15.80	0.88	14.35	17.25	-3.80	1.51	-6.28	-1.33	21.39	1.07	19.64	23.14	2.60	2.60	2.60	2.60
E 0.40	4	16.64	1.56	14.09	19.19	-1.05	2.04	-4.39	2.28	23.40	1.72	17.58	23.22	7.24	7.24	7.24	7.24
T 0.50	4	17.49	2.16	13.95	21.04	1.01	1.19	-0.94	2.95	19.82	1.08	18.05	20.07	10.73	10.73	10.73	10.73
U 0.60	4	17.92	1.49	15.48	20.37	3.46	1.44	1.10	5.83	18.37	1.29	16.25	20.50	13.09	13.09	13.09	13.09
R 0.70	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.89	15.98	15.98	15.98
N 0.80	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
O 0.90	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N 1.00	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LANDMARK - LT WRIST CENTER

(27)

TIME	SAMPLE SIZE,N	(- - - - - X - CO-ORDINATE - - - - -)					(- - - - - Y - CO-ORDINATE - - - - -)					(- - - - - Z - CO-ORDINATE - - - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
O 0.10	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
F 0.20	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
O 0.30	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
R 0.40	2	13.00	0.06	12.90	13.11	0.06	1.02	-2.93	3.05	19.21	0.28	18.76	19.67	0.0	0.0	0.0	0.0	
W 0.50	5	13.36	1.19	11.40	15.32	1.69	5.71	-0.15	19.52	1.35	17.31	21.74	3.03	3.03	3.03	3.03	3.03	
A 0.60	6	13.00	0.95	11.45	14.56	-4.73	-7.79	-7.66	-1.80	20.28	1.12	18.43	22.12	1.98	1.98	1.98	1.98	1.98
R 0.70	6	12.83	0.79	11.54	14.12	-6.11	1.38	-8.37	-3.86	20.50	0.81	19.17	21.84	1.41	1.41	1.41	1.41	1.41
D 0.80	6	12.66	0.62	11.65	13.67	-7.54	0.98	-9.15	-5.93	20.63	0.85	19.24	22.03	1.44	1.44	1.44	1.44	1.44
O 0.90	5	12.86	0.51	12.03	13.69	-8.09	0.76	-9.35	-6.86	19.89	1.90	16.77	23.01	0.95	0.95	0.95	0.95	0.95
N 1.00	5	12.90	0.44	12.18	13.63	-8.38	0.66	-9.47	-7.30	20.39	0.48	19.61	21.18	0.58	0.58	0.58	0.58	0.58
O 0.0	5	12.90	0.44	12.18	13.63	-8.38	0.66	-9.47	-7.30	20.39	0.48	19.61	21.18	0.0	0.0	0.0	0.0	0.0
O 0.10	5	13.06	0.52	12.21	13.90	-6.86	1.41	-9.18	-4.54	19.99	1.52	17.50	22.49	1.58	1.58	1.58	1.58	1.58
R 0.20	5	13.50	0.99	11.89	15.12	-4.48	1.86	-7.53	-1.42	20.12	2.13	16.62	23.61	2.43	2.43	2.43	2.43	2.43
E 0.30	5	14.13	1.30	12.00	16.26	-1.77	2.04	-5.11	1.57	20.09	1.23	18.07	22.10	2.78	2.78	2.78	2.78	2.78
E 0.40	3	14.73	1.75	11.87	17.60	-0.68	1.24	-2.72	1.24	19.19	1.65	16.48	21.90	1.54	1.54	1.54	1.54	1.54
T 0.50	2	15.76	3.64	9.79	21.74	1.91	1.47	-0.50	4.32	17.75	2.60	13.50	22.01	3.14	3.14	3.14	3.14	3.14
U 0.60	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
R 0.70	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
N 0.80	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
O 0.90	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
N 1.00	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +20.0, +10.0, +12.4 TO STICK CONTROLLER AT +20.0, 0.0, +12.4 AND REMAINS AT STICK CONTROLLER FOR RIGHT HAND TO COMPLETE A MOVEMENT AND THEN RETURNS BACK TO THROTTLE CONTROLLER.

BACK ANGLE - 13

SUB-MOVEMENT

	TIME DATA			
	MEAN	STD DEV		RANGE
LEFT FWD	0.46	0.09	0.30 TO 0.70	SECS.
LEFT REV	0.43	0.15	0.10 TO 0.90	SECS.

TIME	SAMPLE	CO-ORDINATE X					CO-ORDINATE Y					CO-ORDINATE Z				
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	
0.0	T	4.2	6.85	1.34	4.65	9.04	0.30	1.42	-2.03	2.63	29.34	1.26	27.42	31.42	0.0	0.0
0.10	R	4.2	6.83	1.44	4.47	9.18	-0.08	1.32	-2.24	2.08	29.35	1.27	27.27	31.42	0.38	0.38
F	0.20	4.2	6.78	1.60	4.15	9.41	-0.42	1.39	-2.69	1.86	29.37	1.34	27.18	31.56	0.34	0.72
O	0.30	4.2	6.71	1.65	4.02	9.41	-0.52	1.42	-2.85	1.81	29.41	1.34	27.20	31.61	0.13	0.85
R	0.40	4.2	6.68	1.68	3.93	9.44	-0.54	1.48	-2.96	1.89	29.42	1.35	27.21	31.63	0.04	0.88
W	0.50	4.2	6.70	1.70	3.91	9.48	-0.50	1.54	-3.02	2.02	29.47	1.38	27.20	31.74	0.06	0.95
A	0.60	4.2	6.69	1.67	3.96	9.42	-0.45	1.53	-2.95	2.06	29.54	1.40	27.25	31.84	0.09	1.04
R	0.70	4.2	6.56	1.57	3.97	9.14	-0.37	1.51	-2.85	2.11	29.69	1.44	27.32	32.06	0.21	1.25
D	0.80	4.1	6.35	1.47	3.94	8.77	-0.25	1.54	-2.78	2.28	29.84	1.46	27.45	32.23	0.28	1.53
O	0.90	4.0	6.20	1.50	3.74	8.66	-0.11	1.65	-2.81	2.59	29.95	1.50	27.49	32.42	0.24	1.77
N	1.00	4.0	6.10	1.58	3.51	8.68	0.04	1.76	-2.84	2.93	30.36	1.54	27.53	32.58	0.21	1.98
0.0	0.0	4.0	6.10	1.58	3.51	8.68	0.04	1.76	-2.84	2.93	30.36	1.54	27.53	32.58	0.0	0.0
0.10	4.2	6.63	1.56	4.07	9.18	0.95	1.24	-1.08	2.99	29.47	1.26	27.41	31.52	1.21	1.21	
0.20	4.2	6.68	1.50	4.22	9.15	0.84	1.22	-1.16	2.84	29.44	1.23	27.42	31.46	0.12	1.33	
R	0.30	4.2	6.72	1.45	4.34	9.10	0.75	1.19	-1.21	2.71	29.42	1.24	27.39	31.46	0.11	1.44
E	0.40	4.2	6.77	1.45	4.39	9.14	0.64	1.19	-1.31	2.59	29.41	1.26	27.35	31.47	0.12	1.55
T	0.50	4.2	6.81	1.46	4.41	9.21	0.54	1.21	-1.45	2.52	29.40	1.27	27.32	31.47	0.11	1.67
U	0.60	4.2	6.82	1.46	4.42	9.22	0.45	1.28	-1.65	2.56	29.39	1.28	27.29	31.50	0.09	1.75
R	0.70	4.2	6.82	1.42	4.50	9.15	0.39	1.33	-1.80	2.58	29.39	1.30	27.26	31.52	0.06	1.82
N	0.80	4.2	6.83	1.39	4.56	9.10	0.33	1.35	-1.89	2.54	29.37	1.29	27.26	31.49	0.06	1.88
O	0.90	4.2	6.84	1.36	4.60	9.07	0.30	1.38	-1.96	2.57	29.36	1.27	27.27	31.45	0.03	1.91
1.00	4.2	6.85	1.34	4.65	9.04	0.30	1.42	-2.03	2.63	29.34	1.26	27.27	31.42	0.02	1.93	

TIME	SAMPLE	CO-ORDINATE X					CO-ORDINATE Y					CO-ORDINATE Z				
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	
0.0	T	4.2	0.88	1.21	-2.86	1.10	-0.66	0.96	-2.23	0.92	23.68	1.04	21.97	25.39	0.0	0.0
0.10	R	4.2	0.81	1.22	-2.81	1.18	-0.56	0.93	-2.09	0.96	23.50	1.03	21.91	25.30	0.14	0.14
F	0.20	4.2	0.77	1.44	-3.14	1.59	-0.46	1.19	-2.41	1.49	23.54	1.04	21.83	25.25	0.12	0.26
O	0.30	4.2	0.82	1.47	-3.23	1.58	-0.49	1.23	-2.51	1.52	23.54	1.04	21.83	25.25	0.06	0.32
R	0.40	4.2	0.88	1.48	-3.30	1.55	-0.52	1.23	-2.55	1.50	23.56	1.04	21.85	25.27	0.06	0.38
W	0.50	4.2	0.87	1.46	-3.27	1.52	-0.58	1.18	-2.51	1.35	23.58	1.08	21.81	25.35	0.07	0.45
A	0.60	4.2	0.86	1.46	-3.25	1.53	-0.60	1.15	-2.48	1.29	23.58	1.11	21.76	25.41	0.02	0.47
R	0.70	4.2	0.86	1.37	-3.11	1.40	-0.52	1.10	-2.32	1.28	23.58	1.09	21.78	25.37	0.08	0.55
D	0.80	4.2	0.87	1.33	-3.05	1.32	-0.43	1.08	-2.20	1.34	23.57	1.07	21.81	25.33	0.09	0.64
O	0.90	4.2	0.86	1.28	-2.96	1.23	-0.42	1.10	-2.23	1.39	23.57	1.10	21.76	25.37	0.01	0.65
1.00	4.2	0.86	1.26	-2.92	1.20	-0.41	1.16	-2.32	1.50	23.56	1.14	21.69	25.44	0.01	0.66	
0.0	0.0	4.2	-0.91	1.15	-2.81	0.98	-0.41	1.20	-2.17	1.35	23.53	1.09	21.85	25.42	0.09	0.09
0.10	4.2	-0.92	1.13	-2.77	0.93	-0.48	1.03	-2.17	1.22	23.64	1.09	21.85	25.43	0.07	0.16	
R	0.30	4.2	-0.92	1.12	-2.76	0.92	-0.55	1.02	-2.22	1.13	23.65	1.11	21.82	25.47	0.07	0.23
E	0.40	4.2	-0.92	1.12	-2.76	0.92	-0.61	1.03	-2.29	1.08	23.65	1.12	21.82	25.48	0.06	0.29
T	0.50	4.2	-0.86	1.12	-2.70	0.97	-0.60	1.06	-2.34	1.14	23.67	1.10	21.86	25.48	0.06	0.35
U	0.60	4.2	-0.81	1.15	-2.70	1.07	-0.59	1.08	-2.36	1.18	23.68	1.09	21.89	25.48	0.05	0.40
R	0.70	4.2	-0.86	1.16	-2.77	1.05	-0.67	0.98	-2.28	0.94	23.69	1.09	21.90	25.47	0.09	0.49
N	0.80	4.2	-0.87	1.20	-2.83	1.10	-0.71	0.99	-2.34	0.92	23.67	1.07	21.93	25.42	0.04	0.53
O	0.90	4.2	-0.87	1.20	-2.83	1.09	-0.70	0.98	-2.30	0.91	23.68	1.05	21.96	25.39	0.01	0.54
1.00	4.2	-0.88	1.21	-2.86	1.06	-0.66	0.92	-2.23	0.92	23.68	1.04	21.97	25.39	0.04	0.58	

LANDMARK - SUPRASTERNALE { 3 }

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE							
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
0.0	A	1.29	1.028	5.53	-0.39	1.07	2.15	1.37	22.38	0.92	20.87	23.89	0.92	0.0	0.0	0.0	0.0		
	B	3.41	3.33	1.32	1.16	5.49	0.34	1.05	-2.06	1.37	22.33	0.89	20.88	23.78	0.10	0.10	0.10	0.10	
0.10	C	4.2	3.24	1.50	0.77	5.70	-0.27	1.23	-2.28	1.74	22.30	0.93	20.77	23.84	0.12	0.22	0.22	0.22	
F	D	2.0	2.0	3.20	1.59	5.81	-0.32	1.23	-2.34	1.70	22.37	0.97	20.78	23.95	0.09	0.31	0.31	0.31	
0	E	0.30	4.2	3.21	1.62	0.55	5.87	-0.42	1.21	-2.40	1.56	22.42	1.06	20.69	24.15	0.11	0.42	0.42	0.42
R	G	0.40	4.2	3.19	1.63	0.51	5.87	-0.41	1.21	-2.39	1.57	22.44	1.00	20.76	24.05	0.02	0.45	0.45	0.45
H	I	0.50	4.2	3.21	1.62	0.54	5.87	-0.37	1.21	-2.36	1.62	22.42	0.98	20.85	24.02	0.04	0.49	0.49	0.49
A	J	0.60	4.2	3.28	1.58	0.69	5.87	-0.37	1.19	-2.32	1.57	22.68	1.91	19.56	25.82	0.28	0.77	0.77	0.77
R	K	0.70	4.2	3.30	1.51	0.84	5.80	-0.33	1.15	-2.22	1.55	22.93	3.39	17.37	28.49	0.25	1.02	1.02	1.02
D	L	0.80	4.2	3.33	1.47	0.92	5.74	-0.24	1.15	-2.13	1.65	22.70	1.96	19.48	25.91	0.25	1.27	1.27	1.27
O	M	0.90	4.2	3.35	1.46	0.96	5.74	-0.16	1.18	-2.10	1.78	22.47	0.95	20.90	24.03	0.24	1.51	1.51	1.51
1.00	N	4.2	3.35	1.46	0.96	5.74	-0.16	1.18	-2.10	1.78	22.47	0.95	20.90	24.03	0.24	1.51	1.51	1.51	

LANDMARK - LT ACRION { 5 }

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	P	2.6	0.31	1.17	-2.05	1.10	1.61	7.12	0.74	2.3	8.34	22.35	1.21	21.15	25.11	0.0	0.0	
0.10	Q	2.6	0.25	1.24	1.24	5.52	0.19	1.14	-2.05	1.68	22.34	0.93	20.81	23.87	0.07	0.19		
F	R	0.20	2.7	0.17	1.08	1.94	1.60	7.16	0.24	1.16	1.66	22.34	0.94	20.80	23.87	0.06	0.25	
O	S	0.30	3.1	0.04	1.44	2.41	2.32	7.08	0.80	1.06	-2.11	1.37	22.38	0.92	20.87	23.89	0.02	0.40
R	T	0.40	3.2	0.01	1.37	-2.26	2.24	7.14	0.76	1.09	-2.11	1.39	22.37	0.89	20.91	23.83	0.03	0.43
W	U	0.50	3.2	0.12	1.36	-2.12	2.35	7.22	0.77	1.07	-2.11	1.36	22.37	0.90	20.90	23.85	0.02	0.45
A	V	0.60	3.2	0.32	1.32	-1.84	2.48	7.28	0.79	1.07	-2.12	1.41	22.38	0.95	20.79	23.93	0.06	0.36
R	X	0.70	3.2	0.51	1.19	-1.44	2.47	7.34	0.87	1.06	-2.11	1.37	22.38	0.92	20.82	23.94	0.02	0.38
D	Y	0.80	3.2	0.62	1.06	-1.11	2.35	7.41	0.80	1.09	-2.11	1.37	22.38	0.92	20.87	23.89	0.02	0.40
O	Z	0.90	3.2	0.69	1.04	-1.01	2.39	7.54	0.76	1.08	-2.11	1.36	22.37	0.90	20.90	23.85	0.02	0.45
1.00	AA	3.2	0.71	1.02	-0.97	2.38	7.63	0.79	1.07	-2.11	1.37	22.38	0.95	20.87	23.89	0.02	0.47	

LANDMARK - LT GRIP CENTER (17)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	19	18.446	0.79	17.16	19.77	9.87	0.58	8.92	10.82	12.83	0.40	12.17	13.48	0.0	0.0	0.40	12.17	13.48
0.10	19	18.06	0.79	16.79	19.46	9.20	0.68	8.08	10.32	13.61	0.42	12.92	14.29	0.11	0.11	0.42	12.92	14.29
F 0.20	20	17.70	0.89	16.23	19.16	8.50	0.99	6.88	10.13	14.41	0.71	13.24	15.38	1.12	1.12	1.12	13.24	15.38
O 0.30	19	17.40	0.83	16.04	18.77	7.05	1.14	5.19	8.92	14.19	0.66	13.70	15.88	1.53	1.53	1.53	13.70	15.88
R 0.40	19	17.23	0.95	15.67	18.79	5.59	1.22	3.59	7.60	15.02	0.70	13.88	16.16	1.48	1.48	1.48	13.88	16.16
W 0.50	20	17.32	1.13	15.47	19.17	3.94	1.63	1.27	6.60	14.66	0.70	13.51	15.81	1.70	1.70	1.70	13.51	15.81
A 0.60	19	17.83	0.95	16.28	19.38	3.02	1.09	1.23	4.80	14.13	0.78	12.86	15.40	1.18	1.18	1.18	12.86	15.40
R 0.70	18	18.18	0.77	16.91	19.45	2.37	0.59	1.39	3.34	13.40	0.72	12.32	14.68	0.97	0.97	0.97	12.32	14.68
D 0.80	17	18.55	0.70	17.39	19.70	1.75	0.54	0.86	2.63	12.92	0.74	11.71	14.14	0.93	0.93	0.93	11.71	14.14
O 0.90	16	18.72	0.50	17.90	19.54	1.38	0.90	-0.09	2.85	12.60	0.77	11.34	13.87	0.51	0.51	0.51	11.34	13.87
1.00	16	18.81	0.37	18.20	19.42	1.60	0.44	0.88	2.32	12.56	0.59	11.60	13.55	0.24	0.24	0.24	11.60	13.55
0.0	16	18.81	0.37	18.20	19.42	1.60	0.44	0.88	2.32	12.58	0.59	11.60	13.55	0.0	0.0	0.0	11.60	13.55
0.10	15	16.90	1.04	15.19	18.61	3.71	1.48	1.29	6.13	13.79	1.43	11.45	16.14	3.10	3.10	3.10	11.45	16.14
0.20	15	16.66	1.11	14.83	18.49	4.43	1.90	1.31	7.55	14.35	1.86	11.30	17.40	0.94	0.94	0.94	11.30	17.40
R 0.30	15	16.90	1.51	14.42	19.38	5.75	3.02	0.80	10.00	14.98	2.22	11.33	18.63	1.48	1.48	1.48	11.33	18.63
E 0.40	17	16.70	1.20	14.73	18.67	6.63	2.08	3.22	10.04	15.04	1.31	12.89	17.20	0.90	0.90	0.90	12.89	17.20
T 0.50	19	16.97	1.24	14.93	19.01	7.55	1.81	4.59	10.51	15.01	1.15	13.42	16.90	0.96	0.96	0.96	13.42	16.90
U 0.60	18	17.27	1.26	15.21	19.33	8.56	1.63	5.88	11.23	14.70	1.16	12.79	16.60	1.09	1.09	1.09	12.79	16.60
R 0.70	19	17.68	1.20	15.12	19.65	9.25	1.40	6.95	11.54	14.50	0.93	12.68	15.72	0.95	0.95	0.95	12.68	15.72
N 0.80	19	18.00	1.12	16.17	19.83	9.53	0.96	7.95	11.11	13.70	0.75	12.53	15.01	0.60	0.60	0.60	12.53	15.01
O 0.90	19	18.26	0.94	16.72	19.79	9.75	0.68	8.64	10.87	13.29	0.49	12.49	14.09	0.59	0.59	0.59	12.49	14.09
1.00	19	18.46	0.79	17.16	19.77	9.87	0.58	8.92	10.82	12.83	0.40	12.17	13.48	0.52	0.52	0.52	12.17	13.48

LANDMARK - LT TROCHANTER (19)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	21	4.16	0.67	3.07	5.25	6.74	0.79	5.44	8.03	9.90	0.35	3.32	4.48	0.0	0.0	0.0	3.32	4.48
0.10	21	4.18	0.60	3.20	5.16	6.71	0.67	5.62	7.80	9.88	0.33	3.33	4.42	0.04	0.04	0.04	3.33	4.42
F 0.20	21	4.19	0.57	3.25	5.13	6.68	0.65	5.61	7.75	9.85	0.34	3.30	4.41	0.04	0.04	0.04	3.30	4.41
O 0.30	21	4.21	0.54	3.33	5.10	6.64	0.69	5.51	7.76	9.85	0.32	3.32	4.38	0.05	0.05	0.05	3.32	4.38
R 0.40	21	4.24	0.55	3.34	5.14	6.63	0.71	5.47	7.79	9.87	0.32	3.34	4.39	0.03	0.03	0.03	3.34	4.39
W 0.50	21	4.23	0.58	3.28	5.17	6.63	0.70	5.48	7.77	9.88	0.33	3.33	4.42	0.02	0.02	0.02	3.33	4.42
A 0.60	21	4.22	0.61	3.22	5.22	6.58	0.71	5.42	7.75	9.89	0.36	3.30	4.47	0.05	0.05	0.05	3.30	4.47
R 0.70	21	4.24	0.62	3.23	5.25	6.60	0.71	5.43	7.77	9.91	0.37	3.31	4.51	0.04	0.04	0.04	3.31	4.51
O 0.80	21	4.25	0.57	3.31	5.19	6.63	0.73	5.44	7.82	9.92	0.37	3.31	4.54	0.04	0.04	0.04	3.31	4.54
0.90	21	4.27	0.52	3.42	5.13	6.66	0.69	5.53	7.80	9.90	0.37	3.30	4.50	0.05	0.05	0.05	3.30	4.50
1.00	21	4.30	0.54	3.42	5.18	6.69	0.67	5.59	7.79	9.87	0.38	3.24	4.50	0.05	0.05	0.05	3.24	4.50
0.0	21	4.30	0.54	3.42	5.18	6.69	0.67	5.59	7.79	9.87	0.38	3.24	4.50	0.0	0.0	0.0	3.24	4.50
0.10	20	4.15	0.62	3.14	5.18	6.62	0.73	5.43	7.82	9.84	0.33	3.30	4.39	0.16	0.16	0.16	3.30	4.39
O 0.20	20	4.22	0.57	3.29	5.16	6.59	0.72	5.45	7.81	9.85	0.33	3.30	4.39	0.07	0.07	0.07	3.30	4.39
R 0.30	21	4.21	0.55	3.30	5.11	6.59	0.72	5.42	7.77	9.87	0.34	3.32	4.42	0.05	0.05	0.05	3.32	4.42
E 0.40	21	4.24	0.64	3.20	5.29	6.56	0.72	5.38	7.75	9.87	0.35	3.29	4.45	0.05	0.05	0.05	3.29	4.45
T 0.50	21	4.50	0.87	3.08	5.93	6.79	1.19	4.84	8.74	9.89	0.38	3.27	4.51	0.34	0.34	0.34	3.27	4.51
U 0.60	21	4.59	1.38	2.32	6.85	6.97	1.65	4.26	9.69	9.91	0.35	3.33	4.49	0.20	0.20	0.20	3.33	4.49
R 0.70	21	4.24	0.56	3.32	5.15	6.71	0.78	5.43	7.99	9.94	0.35	3.36	4.52	0.44	0.44	0.44	3.36	4.52
N 0.80	21	4.14	0.59	3.18	5.11	6.66	0.74	5.45	7.87	9.93	0.35	3.37	4.54	0.11	0.11	0.11	3.37	4.54
O 0.90	21	4.15	0.60	3.17	5.13	6.68	0.73	5.48	7.88	9.92	0.34	3.36	4.49	0.03	0.03	0.03	3.36	4.49
1.00	21	4.16	0.67	3.07	5.25	6.74	0.79	5.44	8.03	9.90	0.35	3.32	4.48	0.06	0.06	0.06	3.32	4.48

LANDMARK - LT KNEE TOP (21)

TIME	SAMPLE SIZE, N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	25	19.99	0.74	18.78	21.20	5.44	0.85	4.06	6.83	11.35	1.22	9.35	13.35	0.0	0.0	5.44	0.0
F	25	19.98	0.80	18.67	21.30	5.51	0.86	4.11	6.92	11.34	1.23	9.32	13.35	0.07	0.07	5.46	0.0
O	20	19.96	0.90	18.49	21.43	5.63	0.98	4.03	7.24	11.37	1.24	9.34	13.41	0.13	0.20	5.56	0.0
D	30	19.94	0.94	18.40	21.47	5.67	0.94	4.13	7.22	11.47	1.31	9.32	13.62	0.11	0.31	5.60	0.0
R	40	19.91	1.02	18.14	21.48	5.54	0.91	4.06	7.03	11.50	1.32	9.34	13.67	0.18	0.49	5.49	0.0
W	50	19.73	1.25	17.68	21.79	5.47	1.09	3.69	7.26	11.51	1.32	9.35	13.67	0.10	0.59	5.35	0.0
A	60	19.79	0.96	18.22	21.36	5.60	0.87	4.17	7.04	11.42	1.27	9.33	13.50	0.17	0.77	5.36	0.0
R	70	19.88	0.86	18.47	21.30	5.69	0.86	4.27	7.11	11.42	1.28	9.33	13.52	0.13	0.89	5.42	0.0
D	80	19.91	0.83	18.54	21.28	5.70	0.87	4.27	7.14	11.42	1.27	9.33	13.52	0.03	0.92	5.42	0.0
O	90	19.92	0.78	18.63	21.20	5.72	0.86	4.32	7.13	11.43	1.27	9.35	13.50	0.02	0.94	5.42	0.0
N	100	19.93	0.78	18.65	21.21	5.75	0.86	4.33	7.16	11.43	1.26	9.36	13.49	0.02	0.97	5.42	0.0
0.0	26	19.93	0.78	18.65	21.21	5.75	0.86	4.33	7.16	11.43	1.26	9.36	13.49	0.0	0.0	5.42	0.0
F	25	19.77	0.80	18.46	21.08	5.58	0.91	4.06	7.06	11.39	1.20	9.41	13.36	0.25	0.25	5.42	0.0
R	30	19.82	0.79	18.52	21.12	5.58	0.93	4.06	7.10	11.41	1.20	9.43	13.38	0.06	0.30	5.42	0.0
E	40	19.86	0.76	18.60	21.11	5.59	0.90	4.12	7.07	11.39	1.19	9.45	13.33	0.05	0.25	5.42	0.0
T	50	19.91	0.74	18.69	21.13	5.60	0.88	4.15	7.04	11.36	1.16	9.45	13.27	0.06	0.41	5.42	0.0
U	60	19.97	0.74	18.76	21.18	5.60	0.89	4.15	7.06	11.36	1.17	9.44	13.27	0.06	0.46	5.42	0.0
R	70	19.98	0.74	18.77	21.19	5.60	0.90	4.13	7.06	11.38	1.18	9.45	13.31	0.03	0.49	5.42	0.0
N	80	20.00	0.75	18.76	21.20	5.52	0.82	4.18	6.86	11.32	1.16	9.42	13.21	0.10	0.59	5.42	0.0
O	90	20.01	0.72	18.81	21.18	5.49	0.81	4.15	6.82	11.34	1.15	9.45	13.23	0.04	0.63	5.42	0.0
W	100	19.99	0.74	18.84	21.19	5.48	0.82	4.12	6.83	11.35	1.18	9.41	13.29	0.02	0.65	5.42	0.0
0.0	26	19.93	0.78	18.65	21.20	5.44	0.85	4.06	6.83	11.35	1.22	9.35	13.36	0.04	0.69	5.42	0.0

LANDMARK - LT SHOULDER CENTER (23)

TIME	SAMPLE SIZE, N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	21	0.89	0.96	0.68	2.96	7.33	0.76	6.03	8.57	20.48	0.99	18.85	22.10	0.0	0.0	5.42	0.0
F	21	0.86	0.86	-0.62	2.19	7.25	0.75	6.02	8.49	20.42	0.98	19.06	21.74	0.15	0.15	5.42	0.0
O	20	0.68	0.84	-0.70	2.05	7.18	0.80	5.87	8.50	20.33	0.79	19.04	21.63	0.14	0.29	5.42	0.0
R	30	0.68	0.85	-0.72	2.08	7.08	0.72	5.89	8.26	20.35	0.75	19.11	21.58	0.11	0.40	5.42	0.0
E	40	0.76	0.87	-0.67	2.19	6.97	0.70	5.82	8.13	20.36	0.76	19.10	21.61	0.13	0.53	5.42	0.0
T	50	0.94	0.89	-0.53	2.40	6.94	0.71	5.76	8.11	20.35	0.77	19.08	21.62	0.18	0.71	5.42	0.0
A	60	1.14	0.83	-0.22	2.50	6.96	0.68	5.84	8.08	20.31	0.74	19.10	21.52	0.21	0.92	5.42	0.0
R	70	1.41	0.75	0.18	2.65	6.98	0.65	5.91	8.05	20.26	0.75	19.02	21.49	0.28	1.20	5.42	0.0
D	80	1.55	0.74	0.34	2.77	7.02	0.63	5.98	8.06	20.21	0.78	18.94	21.49	0.15	1.25	5.42	0.0
O	90	1.70	0.79	0.41	2.99	7.11	0.64	6.07	8.16	20.13	0.78	18.85	21.41	0.19	1.55	5.42	0.0
W	100	1.77	0.86	0.36	3.17	7.21	0.66	6.13	8.29	20.06	0.79	18.76	21.37	0.13	1.68	5.42	0.0
0.0	21	1.77	0.86	0.36	3.17	7.21	0.66	6.13	8.29	20.06	0.79	18.76	21.37	0.0	0.0	5.42	0.0
F	21	0.73	0.74	-0.47	1.94	7.18	0.85	5.78	8.57	20.28	1.06	18.35	21.82	1.03	1.03	5.42	0.0
R	20	0.69	0.78	-0.58	1.97	7.15	0.86	5.74	8.52	20.24	1.03	18.33	21.90	1.14	1.17	5.42	0.0
E	40	0.62	0.81	-0.71	1.94	7.15	0.83	5.78	8.52	20.27	0.98	18.66	21.88	0.10	1.27	5.42	0.0
T	50	0.56	0.85	-0.83	1.94	7.15	0.83	5.79	8.51	20.33	1.00	18.69	21.98	0.09	1.36	5.42	0.0
U	60	0.54	0.89	-0.93	2.00	7.17	0.86	5.77	8.57	20.45	1.04	18.75	22.15	0.12	1.48	5.42	0.0
R	70	0.53	0.93	-1.00	2.06	7.21	0.89	5.76	8.66	20.50	1.03	18.81	22.19	0.03	1.54	5.42	0.0
N	80	0.58	0.85	-0.82	1.98	7.26	0.90	5.78	8.74	20.57	1.01	18.82	22.23	0.10	1.64	5.42	0.0
O	90	0.79	0.87	-0.74	2.13	7.30	0.87	5.88	8.73	20.55	1.03	18.87	22.24	0.12	1.76	5.42	0.0
W	100	0.89	0.96	-0.68	2.46	7.33	0.76	6.08	8.57	20.48	1.01	18.86	22.18	0.11	1.87	5.42	0.0

LANDMARK - LT ELBOW CENTER (25)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)			(- - - Y - CO-ORDINATE - - -)			(- - - Z - CO-ORDINATE - - -)				
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT
T	SIZE, N	5.33	0.81	4.21	6.86	11.82	0.81	10.49	13.15	12.31	1.46	9.92
0.0	21	5.33	0.82	4.02	6.71	10.59	0.82	11.82	12.33	11.82	1.37	9.57
0.10	21	5.37	0.82	4.02	6.81	10.25	0.97	8.66	11.83	11.40	1.40	10.07
F	0.20	21	5.21	0.97	3.61	7.40	1.04	7.86	11.28	11.24	1.39	9.09
O	0.30	21	5.24	1.06	3.50	6.98	9.57	1.04	7.86	11.28	1.39	9.96
R	0.40	21	5.41	1.05	3.70	7.13	9.17	0.88	7.72	10.61	11.20	13.53
W	0.50	21	5.78	1.03	4.10	7.47	8.67	0.82	7.33	10.02	11.17	13.34
A	0.60	21	6.22	0.99	4.60	7.85	8.13	0.81	6.80	9.45	11.11	13.28
R	0.70	21	6.59	0.96	5.03	8.16	7.68	0.79	6.39	8.97	11.01	12.70
D	0.80	21	6.90	0.89	5.44	8.36	7.29	0.78	6.01	8.57	10.86	13.13
N	0.90	21	6.97	0.75	5.74	8.20	7.03	0.62	6.01	8.05	10.72	12.98
P	1.00	21	7.04	0.66	5.96	8.12	6.77	0.52	5.91	7.63	10.58	12.68
0.0	21	7.04	0.66	5.96	8.12	6.77	0.52	5.91	7.63	10.58	1.28	0.62
0.10	21	5.30	1.19	3.36	7.25	8.41	1.00	6.77	10.04	10.81	1.04	0.0
R	0.20	21	4.99	1.10	3.19	6.79	8.90	1.11	7.08	10.71	10.91	9.13
R	0.30	21	4.85	0.99	3.23	6.47	9.42	1.14	7.56	11.28	11.11	9.17
E	0.40	21	4.82	1.01	3.15	6.48	9.91	1.08	8.15	11.68	11.35	13.04
U	0.50	21	4.86	1.09	3.07	6.65	10.42	1.06	8.68	12.16	11.65	13.48
U	0.60	21	5.01	1.03	3.31	6.70	10.92	1.07	9.17	12.67	11.94	13.97
R	0.70	21	5.14	0.95	3.59	6.69	11.33	1.06	9.59	13.06	12.17	14.18
N	0.80	21	5.27	0.86	3.86	6.68	11.60	1.00	9.96	13.25	12.31	14.45
N	0.90	21	5.40	0.82	4.05	6.75	11.72	0.89	10.26	12.18	12.34	14.68
P	1.00	21	5.53	0.81	4.21	6.86	11.82	0.81	10.49	13.15	12.31	14.90
0.0	21	7.04	0.66	5.96	8.12	6.77	0.52	5.91	7.63	10.58	1.28	0.62
0.10	21	5.30	1.19	3.36	7.25	8.41	1.00	6.77	10.04	10.81	1.04	0.0
R	0.20	21	4.99	1.10	3.19	6.79	8.90	1.11	7.08	10.71	10.91	9.13
R	0.30	21	4.85	0.99	3.23	6.47	9.42	1.14	7.56	11.28	11.11	9.17
E	0.40	21	4.82	1.01	3.15	6.48	9.91	1.08	8.15	11.68	11.35	13.04
U	0.50	21	4.86	1.09	3.07	6.65	10.42	1.06	8.68	12.16	11.65	13.48
U	0.60	21	5.01	1.03	3.31	6.70	10.92	1.07	9.17	12.67	11.94	13.97
R	0.70	21	5.14	0.95	3.59	6.69	11.33	1.06	9.59	13.06	12.17	14.18
N	0.80	21	5.27	0.86	3.86	6.68	11.60	1.00	9.96	13.25	12.31	14.45
N	0.90	21	5.40	0.82	4.05	6.75	11.72	0.89	10.26	12.18	12.34	14.68
P	1.00	21	5.53	0.81	4.21	6.86	11.82	0.81	10.49	13.15	12.31	14.90
0.0	21	7.04	0.66	5.96	8.12	6.77	0.52	5.91	7.63	10.58	1.28	0.62
0.10	21	5.30	1.19	3.36	7.25	8.41	1.00	6.77	10.04	10.81	1.04	0.0
R	0.20	21	4.99	1.10	3.19	6.79	8.90	1.11	7.08	10.71	10.91	9.13
R	0.30	21	4.85	0.99	3.23	6.47	9.42	1.14	7.56	11.28	11.11	9.17
E	0.40	21	4.82	1.01	3.15	6.48	9.91	1.08	8.15	11.68	11.35	13.04
U	0.50	21	4.86	1.09	3.07	6.65	10.42	1.06	8.68	12.16	11.65	13.48
U	0.60	21	5.01	1.03	3.31	6.70	10.92	1.07	9.17	12.67	11.94	13.97
R	0.70	21	5.14	0.95	3.59	6.69	11.33	1.06	9.59	13.06	12.17	14.18
N	0.80	21	5.27	0.86	3.86	6.68	11.60	1.00	9.96	13.25	12.31	14.45
N	0.90	21	5.40	0.82	4.05	6.75	11.72	0.89	10.26	12.18	12.34	14.68
P	1.00	21	5.53	0.81	4.21	6.86	11.82	0.81	10.49	13.15	12.31	14.90
0.0	21	7.04	0.66	5.96	8.12	6.77	0.52	5.91	7.63	10.58	1.28	0.62
0.10	21	5.30	1.19	3.36	7.25	8.41	1.00	6.77	10.04	10.81	1.04	0.0
R	0.20	21	4.99	1.10	3.19	6.79	8.90	1.11	7.08	10.71	10.91	9.13
R	0.30	21	4.85	0.99	3.23	6.47	9.42	1.14	7.56	11.28	11.11	9.17
E	0.40	21	4.82	1.01	3.15	6.48	9.91	1.08	8.15	11.68	11.35	13.04
U	0.50	21	4.86	1.09	3.07	6.65	10.42	1.06	8.68	12.16	11.65	13.48
U	0.60	21	5.01	1.03	3.31	6.70	10.92	1.07	9.17	12.67	11.94	13.97
R	0.70	21	5.14	0.95	3.59	6.69	11.33	1.06	9.59	13.06	12.17	14.18
N	0.80	21	5.27	0.86	3.86	6.68	11.60	1.00	9.96	13.25	12.31	14.45
N	0.90	21	5.40	0.82	4.05	6.75	11.72	0.89	10.26	12.18	12.34	14.68
P	1.00	21	5.53	0.81	4.21	6.86	11.82	0.81	10.49	13.15	12.31	14.90
0.0	21	7.04	0.66	5.96	8.12	6.77	0.52	5.91	7.63	10.58	1.28	0.62
0.10	21	5.30	1.19	3.36	7.25	8.41	1.00	6.77	10.04	10.81	1.04	0.0
R	0.20	21	4.99	1.10	3.19	6.79	8.90	1.11	7.08	10.71	10.91	9.13
R	0.30	21	4.85	0.99	3.23	6.47	9.42	1.14	7.56	11.28	11.11	9.17
E	0.40	21	4.82	1.01	3.15	6.48	9.91	1.08	8.15	11.68	11.35	13.04
U	0.50	21	4.86	1.09	3.07	6.65	10.42	1.06	8.68	12.16	11.65	13.48
U	0.60	21	5.01	1.03	3.31	6.70	10.92	1.07	9.17	12.67	11.94	13.97
R	0.70	21	5.14	0.95	3.59	6.69	11.33	1.06	9.59	13.06	12.17	14.18
N	0.80	21	5.27	0.86	3.86	6.68	11.60	1.00	9.96	13.25	12.31	14.45
N	0.90	21	5.40	0.82	4.05	6.75	11.72	0.89	10.26	12.18	12.34	14.68
P	1.00	21	5.53	0.81	4.21	6.86	11.82	0.81	10.49	13.15	12.31	14.90
0.0	21	7.04	0.66	5.96	8.12	6.77	0.52	5.91	7.63	10.58	1.28	0.62
0.10	21	5.30	1.19	3.36	7.25	8.41	1.00	6.77	10.04	10.81	1.04	0.0
R	0.20	21	4.99	1.10	3.19	6.79	8.90	1.11	7.08	10.71	10.91	9.13
R	0.30	21	4.85	0.99	3.23	6.47	9.42	1.14	7.56	11.28	11.11	9.17
E	0.40	21	4.82	1.01	3.15	6.48	9.91	1.08	8.15	11.68	11.35	13.04
U	0.50	21	4.86	1.09	3.07	6.65	10.42	1.06	8.68	12.16	11.65	13.48
U	0.60	21	5.01	1.03	3.31	6.70	10.92	1.07	9.17	12.67	11.94	13.97
R	0.70	21	5.14	0.95	3.59	6.69	11.33	1.06	9.59	13.06	12.17	14.18
N	0.80	21	5.27	0.86	3.86	6.68	11.60	1.00	9.96	13.25	12.31	14.45
N	0.90	21	5.40	0.82	4.05	6.75	11.72	0.89	10.26	12.18	12.34	14.68
P	1.00	21	5.53	0.81	4.21	6.86	11.82	0.81	10.49	13.15	12.31	14.90
0.0	21	7.04	0.66	5.96	8.12	6.77	0.52	5.91	7.63	10.58	1.28	0.62
0.10	21	5.30	1.19	3.36	7.25	8.41	1.00	6.77	10.04	10.81	1.04	0.0
R	0.20	21	4.99	1.10	3.19	6.79	8.90	1.11	7.08	10.71	10.91	9.13
R	0.30	21	4.85	0.99	3.23	6.47	9.42	1.14	7.56	11.28	11.11	9.17
E	0.40	21	4.82	1.01	3.15	6.48	9.91	1.08	8.15	11.68	11.35	13.04
U	0.50	21	4.86	1.09	3.07	6.65	10.42	1.06	8.68	12.16	11.65	13.48
U	0.60	21	5.01	1.03	3.31	6.70	10.92	1.07	9.17	12.67	11.94	13.97
R	0.70	21	5.14	0.95	3.59	6.69	11.33	1.06	9.59	13.06	12.17	14.18
N	0.80	21	5.27	0.86	3.86	6.68	11.60	1.00	9.96	13.25	12.31	14.45
N	0.90	21	5.40	0.82	4.05	6.75	11.72	0.89	10.26	12.18	12	

DATA FOR 30° BACK ANGLE CONFIGURATION

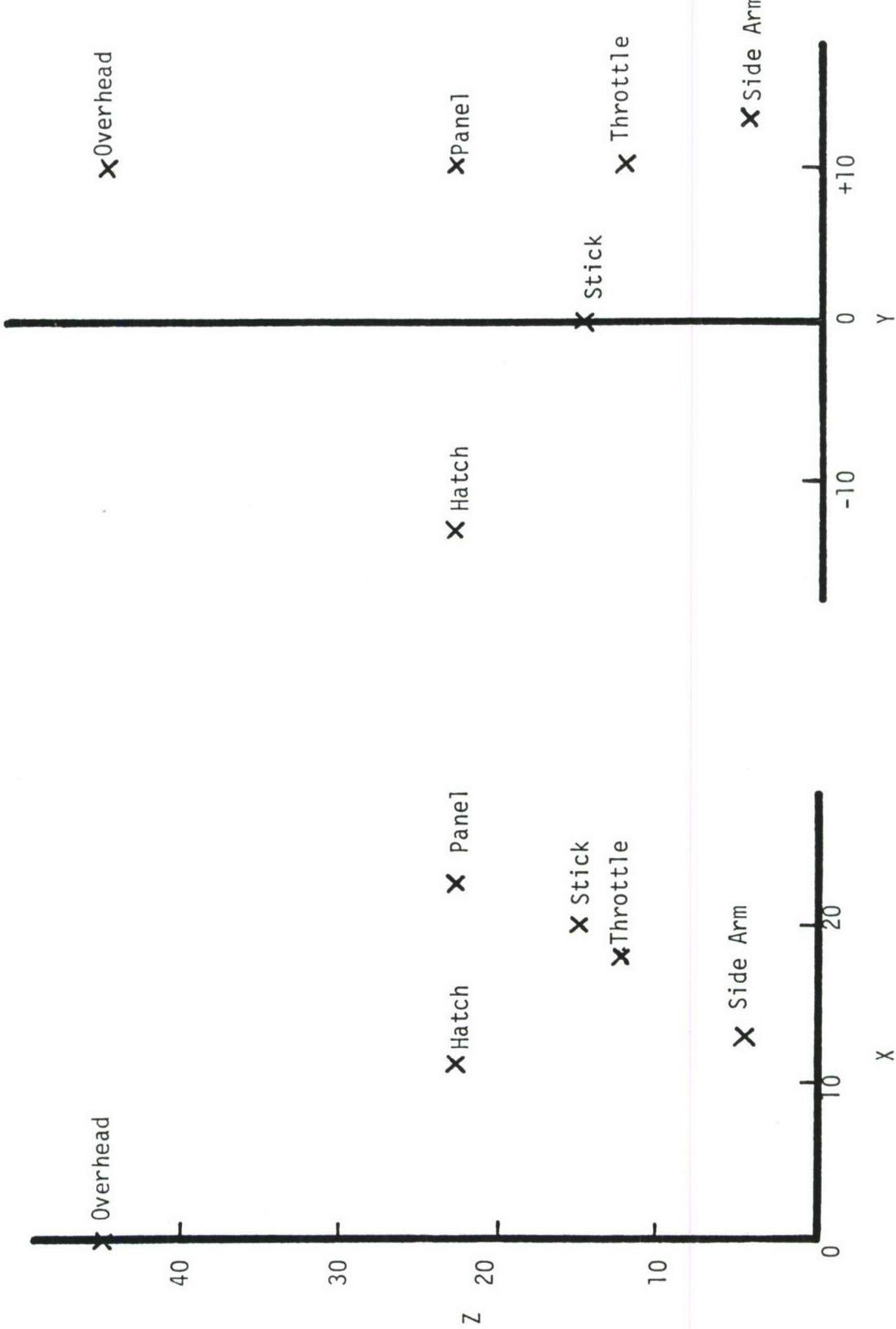


Fig. A-25. Controller Locations for 30° Back Rest Angle

MOVEMENT: RIGHT HAND MOVES FROM STICK CONTROLLER AT +20.0, 0.0, +15.0 TO OVER-HEAD CONTROLLER AT 0.0, +10.0, +45.0 AND RETURNS. THIS MOVEMENT IS PRECEDED BY LEFT HAND MOVING FROM THROTTLE CONTROLLER AT +18.0, +10.0, +12.4 TO STICK CONTROLLER AND IS FOLLOWED BY LEFT HAND RETURNING BACK TO STICK CONTROLLER.

MOTION NUMBER - 11130
BACK ANGLE - 30

SUB-MOVEMENT			TIME DATA		
	MEAN	STD DEV			RANGE
RGHT FWD	1.04	0.18	0.90	TJ	1.30 SECS.
RGHT REV	0.94	0.10	0.80	TJ	1.10 SECS.

LANDMARK - NASTION

(1)

TIME	SAMPLE SIZE, N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
G+0	7	0.62	1.23	1.41	2.64	0.66	1.34	1.54	2.85	2.89	1.29	25.95	30.19	0.6	0.0	0.0	0.0
G+0	7	-0.49	1.41	-2.72	1.91	0.44	0.57	-0.79	1.07	2.92	2.92	25.80	32.04	1.42	1.42	1.42	1.42
F+0.20	7	-1.33	1.31	-3.47	0.81	0.79	0.82	-0.53	2.14	2.93	2.00	26.16	32.73	1.25	2.67	2.67	2.67
O+0.30	7	-2.50	1.32	-4.67	-0.33	1.47	0.73	0.27	2.66	2.93	1.53	27.44	32.47	1.44	4.11	4.11	4.11
R+0.40	7	-3.76	1.14	-5.63	-1.68	2.14	0.68	1.03	3.26	3.24	1.27	32.30	32.30	1.45	5.55	5.55	5.55
W+0.50	7	-4.74	1.10	-6.55	-2.94	2.95	0.80	1.64	4.27	33.26	1.31	28.11	32.41	1.28	6.87	6.87	6.87
A+0.60	7	-5.37	1.22	-7.37	-3.37	3.53	0.79	2.23	4.84	30.16	1.22	28.16	32.16	0.86	7.70	7.70	7.70
K+0.70	7	-5.81	1.34	-8.01	4.10	0.89	2.64	5.56	30.12	1.35	27.91	32.34	0.72	8.42	8.42	8.42	
D+0.80	7	-6.07	1.48	-8.50	-3.64	4.67	1.20	2.70	6.63	29.21	1.32	27.83	32.15	0.64	9.05	9.05	9.05
U+0.90	7	-6.17	1.58	-8.76	-3.58	5.30	1.40	3.00	7.59	29.34	1.40	27.61	32.21	0.64	9.70	9.70	9.70
1.00	7	-6.13	1.56	-8.69	-3.57	5.96	1.50	3.49	8.42	29.84	1.39	27.52	32.07	0.67	10.37	10.37	10.37
U+U	7	-6.13	1.56	-8.69	-3.57	5.96	1.50	3.49	8.42	29.80	1.39	27.52	32.07	0.67	0.0	0.0	0.0
0.10	7	-4.09	1.81	-7.05	-1.12	5.28	1.55	2.74	7.82	29.66	1.71	26.65	32.27	2.18	2.18	2.18	2.18
O+20	7	-3.29	2.03	-6.61	0.03	4.77	1.32	2.61	6.93	29.48	1.84	26.06	32.11	1.02	3.20	3.20	3.20
R+0.30	7	-2.52	1.88	-5.71	0.47	4.05	1.35	1.84	6.27	28.34	1.72	26.00	31.63	1.02	4.22	4.22	4.22
E+0.40	7	-1.81	1.75	-4.68	1.05	3.05	1.46	1.34	6.13	28.83	1.57	26.26	31.41	0.87	5.08	5.08	5.08
T+0.50	7	-1.13	1.72	-3.92	1.72	3.16	1.49	0.72	5.59	28.77	1.48	26.35	31.19	0.92	6.63	6.63	6.63
U+60	7	-0.56	1.22	-2.56	1.44	2.33	1.35	0.72	4.55	28.74	1.44	26.24	30.98	1.00	7.00	7.00	7.00
R+0.70	7	-0.09	1.17	-2.01	1.84	1.84	1.31	0.31	3.98	28.48	1.52	25.99	30.69	0.69	7.70	7.70	7.70
N+80	7	0.33	1.10	1.47	2.13	1.40	1.17	-0.53	3.32	28.29	1.43	25.94	30.64	0.64	8.33	8.33	8.33
U+90	7	0.57	1.20	-1.40	2.50	0.92	1.25	-1.12	2.97	28.25	1.33	26.05	30.44	0.53	8.87	8.87	8.87
1.00	7	0.62	1.23	-1.41	2.64	0.66	1.34	-1.54	2.85	28.47	1.29	25.95	30.19	0.33	9.19	9.19	9.19

LANDMARK - CERVICALE

(2)

TIME	SAMPLE SIZE, N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
O+0	7	-6.45	0.67	-7.55	-5.35	0.76	1.90	-2.35	3.87	21.57	1.24	19.53	23.61	0.0	0.0	0.0	0.0
O+0.20	7	-6.83	0.60	-7.81	-5.86	0.59	0.85	-0.81	1.93	21.50	1.46	19.23	24.00	0.42	0.42	0.42	0.42
F+0.20	7	-6.89	0.45	-7.64	-6.15	0.77	1.02	-0.90	2.44	21.57	1.46	19.17	23.95	0.20	0.62	0.62	0.62
O+0.30	7	-7.13	0.48	-7.92	-6.34	0.99	1.28	-1.10	3.08	21.50	1.38	19.25	23.76	0.33	0.94	0.94	0.94
E+0.40	7	-7.47	0.51	-8.30	-6.63	1.18	1.34	-1.02	3.38	21.45	1.37	19.20	23.70	0.40	1.34	1.34	1.34
W+50	7	-7.90	0.55	-8.80	-7.37	1.42	1.42	-0.96	3.62	21.47	1.51	18.99	23.95	0.47	1.81	1.81	1.81
A+60	7	-7.90	0.58	-8.85	-6.95	1.73	1.31	-0.43	3.88	21.58	1.41	19.36	23.93	0.41	2.22	2.22	2.22
R+70	7	-8.17	0.89	-9.63	-6.71	2.03	1.10	0.23	3.83	21.85	1.49	19.42	24.29	0.44	2.67	2.67	2.67
D+80	7	-8.31	1.62	-10.69	-5.69	2.27	1.33	0.09	4.45	21.77	1.88	18.69	24.84	0.29	2.95	2.95	2.95
O+90	7	-8.37	1.55	-10.92	-5.83	2.84	1.48	0.41	5.20	21.73	1.77	18.82	24.64	0.57	3.53	3.53	3.53
1.00	7	-8.50	1.57	-11.07	-5.93	3.29	2.02	-0.03	6.61	21.75	1.81	18.79	24.72	0.47	4.06	4.06	4.06
O+U	7	-8.50	1.57	-11.07	-5.93	3.29	2.02	-0.03	6.61	21.75	1.81	18.79	24.72	0.47	4.06	4.06	4.06
O+10	7	-8.25	1.38	-10.52	-5.99	3.36	1.57	0.78	5.94	21.98	1.82	18.99	24.97	0.34	3.34	3.34	3.34
R+20	7	-8.15	1.47	-10.56	-5.74	3.45	1.55	0.61	5.68	21.73	1.69	18.96	24.51	0.34	2.68	2.68	2.68
R+30	7	-8.02	1.09	-9.84	-6.23	2.93	1.53	0.41	5.44	21.56	1.64	18.83	24.26	0.30	2.95	2.95	2.95
E+40	7	-7.93	1.01	-9.28	-5.97	2.59	1.57	0.41	5.16	21.64	1.63	19.29	23.99	0.33	1.51	1.51	1.51
T+50	7	-7.18	1.06	-8.91	-5.44	2.21	1.51	-0.26	4.69	21.84	1.30	19.67	23.94	0.61	2.11	2.11	2.11
U+60	7	-7.00	0.92	-8.50	-5.50	1.56	1.60	-1.06	4.19	21.82	1.21	19.86	23.83	0.67	2.79	2.79	2.79
R+70	7	-6.74	0.77	-8.00	-5.48	1.30	1.65	-1.44	4.01	21.82	1.23	19.81	23.83	0.37	3.15	3.15	3.15
N+80	7	-6.54	0.72	-7.73	-5.36	1.19	2.00	-2.09	4.48	21.56	1.23	19.66	23.70	0.26	3.42	3.42	3.42
O+90	7	-6.45	0.75	-7.70	-5.20	0.79	1.83	-2.21	3.79	21.54	1.18	19.71	23.57	0.41	3.64	3.64	3.64
1.00	7	-6.45	0.67	-7.55	-5.35	0.76	2.02	-2.35	3.67	21.57	1.27	19.53	23.61	0.07	3.94	3.94	3.94

LANDMARK - SUPRASTERNALE (3)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	-1.61	1.92	-4.76	1.55	0.77	2.08	-2.63	4.18	20.56	0.80	4.92	21.87	0.0	0.0	0.0	0.0	
0.0	S	7	2.19	-5.61	1.43	0.60	1.14	-1.26	2.47	20.53	1.10	18.82	22.43	0.51	0.51	0.51	0.51	
F	0.20	7	-2.22	1.95	-5.42	0.99	0.77	1.40	-1.53	3.05	20.70	1.09	18.93	22.49	0.22	0.22	0.22	0.22
O	0.30	7	-2.38	1.80	-5.33	0.57	0.77	1.54	-1.56	3.05	20.74	1.09	18.92	22.51	0.20	0.20	0.20	0.20
R	0.40	7	-2.69	1.82	-5.67	0.29	1.17	1.42	-1.16	3.50	20.85	1.05	19.13	22.57	0.39	0.39	0.39	0.39
H	0.50	7	-3.06	1.64	-5.75	0.36	1.54	1.49	-0.91	3.99	20.97	1.08	19.20	22.74	0.54	0.54	0.54	0.54
A	0.60	7	-3.21	1.56	-5.77	0.66	1.99	1.23	-0.03	6.01	21.17	1.07	19.42	22.92	0.51	0.51	0.51	0.51
R	0.70	7	-3.50	1.24	-5.53	1.46	2.16	0.99	0.54	3.78	21.42	1.11	19.61	23.25	0.43	0.43	0.43	0.43
D	0.80	7	-3.80	1.15	-5.69	1.92	2.63	1.05	0.91	4.35	21.50	1.04	19.79	23.21	0.57	0.57	0.57	0.57
N	0.90	7	-3.96	1.14	-5.83	2.09	3.40	1.48	0.98	5.82	21.46	1.00	19.83	23.13	0.49	0.49	0.49	0.49
i	1.00	7	-4.04	0.85	-5.43	-2.65	3.87	1.66	1.15	6.59	21.59	1.08	19.79	23.35	0.49	0.49	0.49	0.49
0.0	T	7	-4.04	0.85	-5.43	-2.65	3.87	1.66	1.15	6.59	21.57	1.08	19.79	23.35	0.0	0.0	0.0	0.0
0.10	U	7	-3.64	1.39	-5.91	-1.36	3.39	1.80	0.43	6.34	21.50	1.03	19.86	23.35	0.63	0.63	0.63	0.63
U	2.0	7	-3.28	1.47	-5.61	-0.78	2.91	1.73	0.07	5.74	21.27	1.09	19.49	23.05	0.1	0.1	0.1	0.1
R	0.30	7	-3.28	1.57	-5.85	-0.70	2.64	1.73	0.22	5.45	21.13	1.08	19.35	22.91	0.33	0.33	0.33	0.33
E	0.40	7	-3.01	1.62	-5.66	-0.36	2.26	1.77	-0.65	5.18	21.07	0.91	19.58	22.56	0.44	0.44	0.44	0.44
T	0.50	7	-2.45	1.72	-5.28	0.37	1.89	1.65	-0.82	4.61	20.88	0.71	19.72	22.04	0.70	0.70	0.70	0.70
U	0.60	7	-2.12	1.43	-4.54	0.31	1.36	1.74	-1.49	4.23	20.82	0.71	19.65	21.99	0.64	0.64	0.64	0.64
R	0.70	7	-1.89	1.82	-4.87	1.09	1.17	1.86	-1.87	4.22	20.32	0.77	19.57	22.08	0.29	0.29	0.29	0.29
N	0.80	7	-1.95	1.73	-4.87	0.98	0.96	2.00	-2.04	4.56	20.74	0.88	19.27	22.15	0.45	0.45	0.45	0.45
N	0.90	7	-1.65	1.84	-4.67	1.37	0.85	2.25	-2.84	4.55	20.53	0.85	19.24	22.02	0.33	0.33	0.33	0.33
i	1.00	7	-1.61	1.92	-4.76	1.55	0.77	2.63	-2.63	4.18	20.56	0.80	19.25	21.87	0.12	0.12	0.12	0.12

LANDMARK - RT ACROMION (4)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT					
0.0	T	-3.54	1.00	-5.18	-1.91	-7.60	1.50	-9.49	20.40	1.11	18.65	22.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.10	U	-4.84	0.88	-6.28	-3.40	-7.83	0.31	-8.34	7.33	20.19	1.38	17.93	22.45	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	
F	0.20	6	-5.13	0.79	-6.42	-3.84	-7.45	0.23	-7.82	7.08	20.44	1.46	18.01	22.81	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
O	0.30	6	-5.34	0.85	-6.72	-3.95	-7.14	0.34	-7.69	6.59	20.73	1.60	18.10	23.36	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
R	0.40	6	-6.01	0.94	-7.55	-4.47	-6.55	0.56	-7.46	5.63	21.34	1.67	18.61	24.07	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
R	0.50	6	-6.67	1.17	-8.60	-4.75	-5.74	0.58	-6.69	4.79	22.14	1.83	19.15	25.14	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
A	0.60	6	-7.15	1.32	-9.32	-4.99	-4.50	0.64	-5.95	3.85	22.58	1.74	20.02	25.73	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
R	0.70	6	-7.78	1.53	-10.28	-5.27	-3.89	0.73	-5.09	2.69	23.39	1.74	20.54	26.24	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
D	0.80	6	-7.98	1.32	-10.14	-5.81	-2.78	1.05	-4.50	1.06	23.74	1.54	21.19	26.23	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
Q	0.90	6	-8.03	1.47	-10.45	-5.62	-8.85	1.57	-3.78	0.07	24.04	1.36	21.78	26.24	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
T	1.00	6	-7.85	1.11	-9.67	-6.03	-1.48	1.59	-4.09	1.12	24.18	1.19	22.23	26.14	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
0.0	T	6	-7.65	1.11	-9.67	-6.03	-1.48	1.59	-4.09	1.12	24.18	1.19	22.23	26.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.10	U	6	-8.32	1.63	-11.00	-5.64	-2.31	1.58	-4.91	0.29	24.59	1.30	21.95	26.22	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
R	0.20	6	-8.12	1.93	-11.29	-4.95	-2.98	1.49	-5.42	0.55	23.97	1.44	21.51	26.23	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
R	0.30	6	-7.59	1.72	-10.42	-4.77	-3.46	1.78	-6.37	0.55	23.44	1.50	20.98	25.90	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
E	0.40	6	-6.35	1.51	-8.82	-3.63	-4.61	1.65	-7.31	1.91	22.75	1.32	20.55	24.91	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
T	0.50	6	-5.43	1.33	-7.61	-3.24	-5.63	1.46	-8.02	3.24	22.43	1.25	20.08	24.18	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
U	0.60	6	-4.43	0.89	-5.89	-2.98	-6.38	1.48	-8.81	3.95	21.50	1.27	19.47	23.64	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
R	0.70	6	-3.67	0.95	-5.23	-2.12	-6.90	1.42	-9.23	4.57	21.15	1.30	19.02	23.27	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11
N	0.80	6	-3.69	1.02	-5.36	-2.01	-7.13	1.44	-9.50	4.77	20.75	1.26	18.68	22.82	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
N	0.90	6	-3.58	0.97	-5.17	-1.99	-7.33	1.50	-9.80	4.87	20.53	1.22	18.62	22.63	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
1.00	6	-3.54	1.00	-5.18	-1.91	-7.40	1.50	-9.86	4.95	20.36	1.11	18.65	22.28	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	

LANDMARK - RT GRIP CENTER (16)

TIME	SAMPLE SIZE, N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	18.50	0.66	17.41	19.58	-1.52	0.61	-2.52	-0.53	13.76	0.58	12.80	14.72	0.0	0.0	0.0	0.0
F	7	17.36	1.10	15.56	19.16	-2.93	0.54	-3.81	-2.05	14.59	1.03	12.40	15.78	1.34	1.84	1.34	1.84
O	7	16.49	1.43	14.14	18.84	-3.22	0.63	-4.25	-2.18	15.62	1.88	12.54	18.71	1.76	3.62	1.76	3.62
R	7	14.70	2.63	10.39	19.01	-3.16	1.11	-4.98	-1.34	19.82	4.31	12.76	26.89	4.57	8.19	4.57	8.19
R	7	11.22	4.07	4.54	17.91	-2.00	1.76	-4.89	0.88	26.44	5.13	17.59	34.42	7.18	15.38	7.18	15.38
R	7	6.30	4.24	-0.65	13.25	0.67	1.77	-2.44	3.38	32.10	6.05	25.45	38.73	8.21	23.59	8.21	23.59
A	7	1.86	2.85	-2.82	6.54	3.59	1.33	1.40	5.77	36.74	2.61	32.43	40.99	7.42	30.71	7.42	30.71
R	7	-1.10	1.66	-3.82	1.61	6.41	0.79	5.12	7.70	40.38	1.47	37.67	42.49	5.30	36.92	5.30	36.92
D	7	-1.94	1.25	-3.99	0.11	8.44	0.58	7.49	9.39	42.54	1.03	40.82	44.21	3.28	39.29	3.28	39.29
O	6	-1.19	1.41	-3.01	0.62	9.54	0.45	8.80	10.28	43.88	0.91	42.38	45.37	1.09	41.19	1.09	41.19
N	6	-0.36	1.05	-2.09	1.36	10.17	0.55	9.27	11.08	44.14	0.57	43.22	45.07	1.08	42.27	1.08	42.27

LANDMARK - RT TROCHANTER (18)

TIME	SAMPLE SIZE, N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	3.69	1.22	1.69	5.69	-7.32	0.90	-8.80	-5.83	3.69	0.57	2.75	4.63	0.0	0.0	0.0	0.0
F	7	3.59	0.90	2.12	5.07	-7.37	0.93	-8.90	-5.84	3.70	0.58	2.74	4.66	0.11	0.11	0.11	0.11
O	7	3.63	1.17	5.56	7.35	-8.92	0.95	-9.78	-6.01	3.65	0.54	2.77	4.53	0.07	0.18	0.07	0.18
R	7	3.56	1.01	1.91	5.21	-7.38	0.84	-8.76	-6.01	3.57	0.61	2.57	4.56	0.11	0.24	0.11	0.24
R	7	3.41	0.94	1.86	4.96	-7.38	1.00	-9.02	-5.74	3.58	0.56	2.66	4.49	0.15	0.44	0.15	0.44
N	7	3.50	1.01	1.84	5.16	-7.41	1.00	-9.04	-5.77	3.59	0.60	2.70	4.67	0.14	0.58	0.14	0.58
A	7	3.59	1.02	5.27	7.35	-8.94	0.97	-9.94	-6.95	3.65	0.57	2.72	4.58	0.12	0.70	0.12	0.70
R	7	3.51	1.05	1.79	5.24	-7.33	1.13	-9.28	-5.93	3.71	0.55	2.81	4.62	0.13	0.83	0.13	0.83
D	7	3.64	1.17	5.57	7.42	-8.08	1.08	-9.18	-5.65	3.74	0.54	2.82	4.59	0.13	0.96	0.13	0.96
O	7	3.58	1.10	1.77	5.38	-7.31	1.10	-9.12	-5.51	3.79	0.53	2.93	4.66	0.15	1.10	0.15	1.10
R	7	3.77	1.37	1.53	6.02	-7.26	1.26	-9.32	-5.19	3.78	0.59	2.82	4.75	0.20	1.31	0.20	1.31
R	7	3.77	1.37	1.53	6.02	-7.26	1.26	-9.32	-5.19	3.78	0.59	2.82	4.75	0.0	0.0	0.0	0.0
O	7	3.63	1.20	1.66	5.60	-7.38	1.14	-9.32	-5.19	3.78	0.59	2.78	4.65	0.20	0.20	0.20	0.20
O	7	3.64	1.22	1.64	5.63	-7.22	1.07	-8.98	-5.46	3.71	0.54	2.82	4.59	0.16	0.36	0.16	0.36
R	7	3.58	1.35	1.36	5.79	-7.50	1.07	-9.26	-5.74	3.63	0.57	2.68	4.57	0.29	0.65	0.29	0.65
E	7	3.18	0.96	1.60	4.76	-7.27	1.30	-9.40	-5.14	3.54	0.59	2.66	4.61	0.11	0.44	0.11	0.44
T	7	3.55	1.01	1.90	5.20	-7.60	0.86	-9.01	-6.19	3.58	0.58	2.72	4.64	0.50	1.61	0.50	1.61
U	7	3.63	1.16	1.72	5.54	-7.64	0.97	-9.24	-6.04	3.62	0.57	2.68	4.56	0.11	1.72	0.11	1.72
R	7	3.56	1.13	1.71	5.41	-7.52	0.96	-9.09	-5.94	3.63	0.56	2.71	4.55	0.14	1.86	0.14	1.86
N	7	3.42	1.08	1.65	5.18	-7.36	1.01	-9.01	-5.70	3.51	0.56	2.69	4.53	0.21	2.08	0.21	2.08
O	7	3.59	1.14	1.77	5.41	-7.37	0.88	-8.81	-5.93	3.74	0.59	2.74	4.69	0.20	2.28	0.20	2.28
1.00	7	3.69	1.22	1.69	5.69	-7.32	0.90	-8.80	-5.83	3.69	0.57	2.75	4.63	0.11	2.40	0.11	2.40

LANDMARK - RT KNEE TOP (20)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	19.20	0.57	18.27	20.14	-5.53	0.78	-6.81	-4.26	11.39	0.98	9.79	13.00	0.0	0.0	0.0	0.0
0.10	N	19.12	0.48	18.33	19.91	-5.59	0.87	-7.01	-4.17	11.68	1.01	9.82	13.13	0.13	0.13	0.13	0.13
F	0.20	19.11	0.50	18.29	19.94	-5.53	0.73	-6.73	-4.33	11.43	0.96	9.86	13.01	0.08	0.08	0.08	0.20
O	0.30	19.13	0.41	18.46	19.80	-5.54	0.77	-6.80	-4.28	11.41	0.97	9.81	13.00	0.03	0.03	0.03	0.24
R	0.40	19.10	0.47	18.34	19.87	-5.58	0.70	-6.72	-4.43	11.43	1.01	9.78	13.09	0.06	0.06	0.06	0.29
A	0.50	19.20	0.54	18.31	20.08	-5.57	0.85	-6.29	-4.18	11.54	0.96	9.94	13.09	0.12	0.12	0.12	0.42
M	0.60	19.31	0.64	18.26	20.36	-5.65	1.00	-7.29	-4.00	11.49	0.96	9.91	13.07	0.14	0.14	0.14	0.55
W	0.70	19.13	0.59	18.17	20.10	-5.65	0.76	-6.91	-4.40	11.47	0.99	9.85	13.08	0.18	0.18	0.18	0.73
D	0.80	19.15	0.57	18.21	20.08	-5.62	0.75	-6.84	-4.39	11.46	0.99	9.84	13.09	0.04	0.04	0.04	0.77
O	0.90	19.25	0.60	18.26	20.23	-5.65	0.71	-6.65	-4.31	11.55	1.03	9.86	13.24	0.19	0.19	0.19	0.96
I	1.00	19.26	0.60	18.28	20.25	-5.45	0.67	-6.55	-4.35	11.52	0.99	9.89	13.14	0.05	0.05	0.05	1.01
0.0	T	19.26	0.60	18.28	20.25	-5.45	0.67	-6.55	-4.35	11.52	0.99	9.89	13.14	0.0	0.0	0.0	0.0
0.10	N	19.25	0.63	18.23	20.28	-5.49	0.76	-6.74	-4.24	11.48	1.03	9.80	13.17	0.05	0.05	0.05	0.05
O	0.20	19.37	0.65	18.30	20.44	-5.38	0.83	-6.74	-4.02	11.47	1.07	9.72	13.21	0.16	0.16	0.16	0.24
R	0.30	19.15	0.64	18.20	20.48	-5.48	0.87	-6.89	-4.08	11.44	1.07	9.66	13.17	0.24	0.24	0.24	0.46
E	0.40	19.12	0.54	18.23	20.01	-5.53	0.77	-6.79	-4.26	11.45	1.06	9.71	13.19	0.06	0.06	0.06	0.52
T	0.50	19.13	0.54	18.25	20.02	-5.70	0.99	-7.32	-4.09	11.48	1.03	9.79	13.17	0.18	0.18	0.18	0.70
U	0.60	19.09	0.70	17.95	20.24	-5.67	0.89	-7.12	-4.22	11.47	1.02	9.79	13.15	0.05	0.05	0.05	0.74
R	0.70	19.13	0.69	18.14	20.12	-5.54	0.66	-6.96	-4.13	11.46	1.05	9.73	13.19	0.13	0.13	0.13	0.88
N	0.80	19.06	0.60	18.07	20.04	-5.66	0.96	-7.25	-4.08	11.44	1.03	9.71	13.09	0.15	0.15	0.15	1.03
O	0.90	19.19	0.59	18.23	20.15	-5.67	0.88	-7.11	-4.23	11.44	1.03	9.76	13.13	0.14	0.14	0.14	1.17
I	1.00	19.20	0.57	18.27	20.14	-5.53	0.78	-6.81	-4.26	11.39	0.98	9.79	13.00	0.15	0.15	0.15	1.34

LANDMARK - RT SHOULDER CENTER (22)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	1.67	1.45	-4.06	-6.83	0.87	0.82	-5.41	-18.35	1.06	1.62	20.08	0.0	0.0	0.0	0.0	0.0
0.10	N	2.86	1.23	-4.88	-6.84	0.34	-7.86	-6.73	17.74	1.06	1.98	19.44	1.43	1.43	1.43	1.43	1.43
F	0.20	2.89	1.04	-4.60	-7.22	0.36	-7.81	-6.63	18.12	1.10	1.32	19.92	0.42	0.42	0.42	0.84	0.84
O	0.30	2.96	1.21	-4.94	-6.98	0.78	-7.72	-6.19	18.28	1.54	1.65	20.63	0.54	0.54	0.54	0.54	0.54
R	0.40	3.16	1.35	-5.38	-6.94	0.49	-7.46	-5.87	19.59	1.48	1.76	22.11	1.16	1.16	1.16	3.54	3.54
M	0.50	3.21	1.57	-5.79	-6.63	0.62	-6.02	-6.69	5.36	21.33	1.85	18.29	24.37	1.76	1.76	1.76	5.31
A	0.60	3.92	1.59	-1.31	-5.03	0.54	-5.96	-5.19	22.87	1.78	19.94	25.79	1.94	1.94	1.94	7.25	
K	0.70	4.78	1.61	-7.42	-2.13	4.00	0.65	-5.07	-2.92	24.04	1.77	21.14	26.93	1.61	1.61	1.61	9.06
D	0.80	5.36	1.83	-8.45	-2.27	3.05	0.51	-3.89	-2.21	24.56	1.84	21.63	27.68	1.27	1.27	1.27	10.33
O	0.90	5.59	1.83	-8.58	-2.05	2.02	0.77	-3.28	-0.75	24.92	1.97	21.71	28.19	1.10	1.10	1.10	11.42
I	1.00	5.74	1.52	-8.24	-3.24	1.57	1.17	-3.48	0.35	25.36	1.65	22.66	28.07	0.63	0.63	0.63	12.06
0.0	T	5.74	1.52	-8.24	-3.24	1.57	1.17	-3.48	0.35	25.36	1.65	22.66	28.07	0.0	0.0	0.0	0.0
0.10	N	4.97	2.23	-8.02	-3.42	1.66	1.27	-4.53	0.36	24.94	1.44	22.55	27.27	1.26	1.26	1.26	1.26
O	0.20	4.37	2.23	-8.02	-3.42	1.49	1.49	-6.14	-0.39	23.76	1.39	21.50	26.06	1.61	1.61	1.61	2.86
R	0.30	4.03	2.07	-7.42	-6.64	4.30	1.49	-6.74	-1.87	22.34	1.65	19.61	25.01	1.75	1.75	1.75	4.61
E	0.40	3.66	1.82	-6.65	-6.65	5.13	1.28	-7.23	-3.03	20.94	1.64	18.23	23.59	1.67	1.67	1.67	6.28
T	0.50	2.96	1.62	-5.59	-0.29	5.77	1.01	-7.42	-4.12	19.94	1.29	17.80	22.02	1.39	1.39	1.39	7.67
U	0.60	2.32	1.24	-4.36	-0.29	6.45	1.02	-8.12	-4.13	19.49	1.26	17.12	21.25	1.47	1.47	1.47	8.84
R	0.70	1.91	1.43	-4.27	0.44	6.48	0.89	-7.95	-5.02	18.95	1.06	17.21	20.69	0.47	0.47	0.47	9.31
N	0.80	1.65	1.31	-3.81	0.50	6.73	0.86	-8.14	-5.32	18.58	1.02	16.90	20.26	0.52	0.52	0.52	9.93
O	0.90	1.57	1.25	-3.64	0.47	6.66	1.10	-8.47	-4.86	18.49	1.11	16.67	20.32	1.14	1.14	1.14	9.96
I	1.00	1.67	1.45	-4.06	0.71	6.83	0.87	-8.25	-5.41	18.35	1.06	15.62	20.08	0.24	0.24	0.24	10.21

LANDMARK - RT ELBOW CENTER (24)

TIME	SAMPLE	(---X - CO-ORDINATE---					(---Y - CO-ORDINATE---					(---Z - CO-ORDINATE---					DISTANCE MOVED					
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	
0.0	7	6.30	0.83	4.93	7.66	-5.51	0.53	-6.38	4.65	12.13	1.22	10.12	14.13	9.18	1.13	10.12	14.13	9.18	1.13	10.12	14.13	
0.10	7	4.99	1.10	3.18	6.80	-7.53	0.64	-8.59	6.47	11.32	1.68	9.18	14.68	9.21	1.75	9.21	14.96	9.21	1.75	9.21	14.96	
F	U+20	7	4.96	1.19	3.06	6.66	-7.75	0.54	-8.63	6.87	12.49	1.75	9.21	14.96	9.42	1.82	9.42	17.86	9.42	1.82	9.42	17.86
O	0.30	7	5.21	1.19	3.26	7.16	-7.90	0.56	-8.82	7.98	13.54	2.57	9.42	17.86	9.42	1.82	9.42	17.86	9.42	1.82	9.42	17.86
R	0.40	7	5.44	1.37	3.19	7.68	-7.72	0.66	-8.80	8.60	17.33	3.78	11.13	23.52	11.13	2.78	11.13	23.52	11.13	2.78	11.13	23.52
W	U+50	7	5.18	1.83	2.10	8.26	-6.78	1.40	-9.09	-4.48	22.54	3.87	16.17	23.86	16.17	3.87	16.17	23.86	16.17	3.87	16.17	23.86
A	0.60	7	3.60	2.32	-2.00	7.40	-5.03	1.69	-7.80	-2.26	26.60	2.60	23.33	31.87	23.33	2.60	23.33	31.87	23.33	2.60	23.33	31.87
K	0.70	7	1.10	2.28	-2.65	4.84	-2.60	1.16	-4.50	-0.70	31.23	1.39	28.94	33.51	28.94	1.39	28.94	33.51	28.94	1.39	28.94	33.51
D	0.80	7	-1.06	2.18	-4.63	2.51	-0.27	0.83	-1.63	1.09	32.95	0.96	31.37	34.53	31.37	0.96	31.37	34.53	31.37	0.96	31.37	34.53
O	0.90	7	-2.06	1.13	1.00	1.52	0.91	0.03	3.01	33.52	0.85	32.23	35.01	32.23	0.85	32.23	35.01	32.23	0.85	32.23	35.01	
1.00	7	-2.10	1.45	-4.48	0.28	2.29	1.27	0.21	4.38	33.73	0.82	32.39	35.07	32.39	0.82	32.39	35.07	32.39	0.82	32.39	35.07	
0.0	7	-2.10	1.45	-4.48	0.28	2.29	1.27	0.21	4.38	33.73	0.82	32.39	35.07	32.39	0.82	32.39	35.07	32.39	0.82	32.39	35.07	
0.10	7	0.13	1.74	2.73	2.98	-1.03	1.55	-3.57	1.51	32.40	1.76	29.42	35.19	29.42	1.76	29.42	35.19	29.42	1.76	29.42	35.19	
O	0.30	7	2.71	2.13	-0.79	6.21	-3.39	1.18	-6.32	2.91	29.11	2.94	24.20	33.83	24.20	2.94	24.20	33.83	24.20	2.94	24.20	33.83
R	0.40	7	4.19	2.06	0.81	7.57	-5.14	1.55	-7.69	-2.60	24.34	3.91	17.89	30.71	17.89	3.91	17.89	30.71	17.89	3.91	17.89	30.71
E	0.40	7	5.02	0.71	2.31	2.86	-6.37	1.22	-8.38	19.28	26.16	12.40	26.16	26.16	12.40	26.16	26.16	26.16	12.40	26.16	26.16	
T	0.50	7	5.20	0.67	4.10	6.29	-6.74	1.02	-8.41	-5.07	15.55	3.53	9.76	21.34	9.76	3.53	9.76	21.34	9.76	3.53	9.76	21.34
U	0.60	7	5.56	0.49	4.76	6.36	-6.69	0.59	-7.66	-5.72	13.45	2.49	9.36	17.54	9.36	2.49	9.36	17.54	9.36	2.49	9.36	17.54
R	0.70	7	6.08	0.08	4.78	7.38	-6.11	0.46	-6.86	-5.35	12.54	1.76	9.63	15.39	9.63	1.76	9.63	15.39	9.63	1.76	9.63	15.39
N	0.80	7	6.18	1.03	4.49	7.86	-5.71	0.60	-6.69	-4.71	12.24	1.43	9.90	14.59	9.90	1.43	9.90	14.59	9.90	1.43	9.90	14.59
O	0.90	7	6.36	0.89	4.90	7.83	-5.71	0.68	-6.83	-4.58	12.24	1.39	9.96	14.52	9.96	1.39	9.96	14.52	9.96	1.39	9.96	14.52
1.00	7	6.30	0.83	4.93	7.66	-5.51	0.53	-6.38	-4.65	12.13	1.22	10.12	14.13	10.12	1.22	10.12	14.13	10.12	1.22	10.12	14.13	

LANDMARK - RT WRIST CENTER (26)

TIME	SAMPLE	(---X - CO-ORDINATE---					(---Y - CO-ORDINATE---					(---Z - CO-ORDINATE---					DISTANCE MOVED						
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE		
0.0	7	1.53	0.57	1.42	1.28	-2.50	0.51	-3.34	-1.65	13.09	0.57	12.15	14.03	12.15	0.57	12.15	14.03	12.15	0.57	12.15	14.03		
0.10	7	13.98	1.15	12.09	15.86	-4.01	0.55	-4.90	-3.11	13.56	1.18	11.73	15.60	11.73	1.18	11.73	15.60	11.73	1.18	11.73	15.60		
F	0.20	7	13.12	1.68	10.37	15.88	-4.22	0.46	-4.97	-3.47	15.19	2.65	10.84	19.54	10.84	2.65	10.84	19.54	10.84	2.65	10.84	19.54	
O	0.30	7	11.67	3.23	6.38	16.96	-3.86	1.00	-5.49	-2.23	19.28	6.31	9.24	29.93	9.24	6.31	9.24	29.93	9.24	6.31	9.24	29.93	
R	0.40	7	9.89	2.89	5.16	11.16	-1.58	-0.85	1.70	-3.65	1.94	23.76	4.55	16.32	21.24	16.32	4.55	16.32	21.24	16.32	4.55	16.32	21.24
P	0.50	7	6.37	3.18	1.15	11.58	-0.85	1.55	-0.55	0.46	4.61	34.16	2.72	23.12	35.75	23.12	2.72	23.12	35.75	23.12	2.72	23.12	35.75
W	0.50	7	3.01	2.32	-0.75	6.78	2.07	1.55	-0.46	0.61	4.61	34.16	2.72	29.71	38.62	29.71	2.72	29.71	38.62	29.71	2.72	29.71	38.62
A	0.60	7	0.20	1.71	1.71	3.12	4.75	0.87	3.32	6.19	37.50	1.59	35.00	40.20	35.00	1.59	35.00	40.20	35.00	1.59	35.00	40.20	
R	0.70	7	-1.24	1.58	-3.84	1.36	6.82	0.51	5.98	7.65	39.75	0.98	38.15	41.36	38.15	0.98	38.15	41.36	38.15	0.98	38.15	41.36	
D	0.80	7	-1.29	1.20	-3.25	0.67	8.09	0.44	7.37	8.81	40.48	0.75	39.65	42.11	39.65	0.75	39.65	42.11	39.65	0.75	39.65	42.11	
U	0.90	7	-0.97	1.02	-2.65	0.70	8.61	0.49	7.81	9.42	41.19	0.61	40.18	42.19	40.18	0.61	40.18	42.19	40.18	0.61	40.18	42.19	
1.00	7	-0.97	1.02	-2.13	1.82	5.60	1.70	2.82	3.38	38.30	2.67	33.91	42.68	33.91	2.67	33.91	42.68	33.91	2.67	33.91	42.68		
R	0.30	7	5.63	2.74	1.13	10.13	0.42	1.54	-2.10	2.10	30.59	5.32	21.87	39.31	21.87	5.32	21.87	39.31	21.87	5.32	21.87	39.31	
E	0.40	7	10.47	3.85	4.15	16.78	-2.28	1.17	-4.19	-0.36	24.29	7.35	12.23	36.34	12.23	7.35	12.23	36.34	12.23	7.35	12.23	36.34	
T	0.50	7	12.90	1.90	1.90	16.02	-3.82	1.70	-6.61	-1.03	19.49	5.10	11.34	28.06	11.34	5.10	11.34	28.06	11.34	5.10	11.34	28.06	
U	0.60	7	14.18	0.50	13.36	15.00	-3.96	0.90	-5.43	-2.49	16.16	2.87	11.45	20.87	11.45	2.87	11.45	20.87	11.45	2.87	11.45	20.87	
R	0.70	7	15.08	0.62	14.07	16.10	-3.38	0.74	-4.60	-2.16	13.84	1.35	11.63	16.06	11.63	1.35	11.63	16.06	11.63	1.35	11.63	16.06	
N	0.80	7	15.30	0.72	0.72	16.49	-2.92	0.67	-4.03	-1.82	13.29	0.79	12.00	14.57	12.00	0.79	12.00	14.57	12.00	0.79	12.00	14.57	
G	0.90	7	15.33	0.58	0.58	16.28	-2.66	0.60	-3.65	-1.67	13.23	0.79	11.94	14.52	11.94	0.79	11.94	14.52	11.94	0.79	11.94	14.52	
1.00	7	15.35	0.57	0.57	16.28	-2.50	0.51	-3.34	-1.65	13.23	0.57	12.15	14.03	12.15	0.57	12.15	14.03	12.15	0.57	12.15	14.03		

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +13.0, -13.0, +4.8 TO OVER-HEAD CONTROLLER AT 0.0, +10.0, +45.0 AND RETURNS. LEFT HAND REMAINS AT THROTTLE CONTROLLER AT +18.0, +10.0, +12.4.

MOTION NUMBER = 12130
BACK ANGLE = 30

SUB-MOVEMENT

TIME DATA			
	MEAN	STD DEV	RANGE
RGHT FWD	0.97	0.10	0.80 TO 1.10 SECS.
RGHT REV	1.07	0.19	0.80 TO 1.40 SECS.

LANDMARK - NASTION

(1)

TIME	SAMPLE SIZE/N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	0.13	1.39	-2.15	2.41	-2.66	1.40	-4.96	-0.26	26.94	1.61	24.30	29.58	0.0	0.0	0.0	0.0	
	F	0.10	2.83	1.52	-5.32	-0.33	0.83	1.96	-2.39	4.05	29.31	1.76	27.02	32.79	5.45	5.45	5.45	5.45
	R	0.20	3.98	1.51	-6.46	-1.50	1.61	1.38	-0.66	3.87	30.20	1.74	27.35	33.06	1.42	6.87	6.87	6.87
	O	0.30	4.90	1.46	-7.31	-2.50	2.11	1.36	-0.13	4.34	30.27	1.60	27.65	32.89	1.05	7.93	7.93	7.93
	D	0.40	5.52	1.48	-7.94	-3.09	2.35	1.44	-0.02	4.71	30.18	1.44	27.82	32.53	0.66	8.59	8.59	8.59
	N	0.50	5.74	1.39	-8.02	-3.47	2.61	1.56	0.06	5.17	30.22	1.52	27.72	32.71	0.36	8.95	8.95	8.95
	A	6.60	5.96	1.41	-8.27	-3.66	2.86	1.57	0.30	5.43	30.18	1.33	28.01	32.36	0.33	9.28	9.28	9.28
	R	0.70	6.20	1.48	-8.63	-3.77	3.50	1.66	0.78	6.22	30.15	1.33	27.97	32.32	0.68	9.96	9.96	9.96
	D	0.80	6.58	1.44	-8.94	-4.23	4.11	1.84	1.10	7.12	30.40	1.31	27.95	32.24	0.72	10.66	10.66	10.66
	O	0.90	6.70	1.34	-8.90	-4.49	4.52	2.07	1.14	7.91	29.97	1.26	27.90	32.03	0.45	11.13	11.13	11.13
	N	1.00	6.32	1.34	-8.51	-4.12	5.33	2.16	1.79	8.87	30.07	1.26	28.01	32.13	0.90	12.03	12.03	12.03
0.0	T	7	-6.32	1.34	-8.51	-4.12	5.33	2.16	1.79	8.87	30.07	1.26	28.01	32.13	0.0	0.0	0.0	0.0
	F	0.10	-4.33	2.22	-7.97	-0.70	3.34	1.60	0.71	5.97	29.43	1.99	26.17	32.69	2.88	2.88	2.88	2.88
	R	0.20	-3.44	1.92	-6.60	-0.29	2.02	1.63	-0.66	4.70	28.95	1.95	25.76	32.14	1.67	4.55	4.55	4.55
	O	0.30	-2.46	1.54	-4.98	0.07	1.32	1.75	-1.55	4.20	28.53	1.82	25.55	31.51	1.27	5.83	5.83	5.83
	E	0.40	-1.63	1.38	-3.89	0.64	0.49	1.47	-1.92	2.90	28.07	1.67	25.33	30.82	1.26	7.09	7.09	7.09
	D	0.50	-1.11	1.38	-3.37	1.15	-0.53	1.25	-2.58	1.53	27.72	1.64	25.03	30.41	1.20	8.28	8.28	8.28
	N	0.60	-0.75	1.32	-2.91	1.41	-1.25	1.14	-3.12	1.63	27.52	1.48	25.09	30.95	0.83	9.11	9.11	9.11
	R	0.70	-0.44	1.41	-2.75	1.86	-1.83	1.32	-3.99	0.33	27.35	1.58	24.76	29.94	0.68	9.79	9.79	9.79
	O	0.80	-0.15	1.46	-2.55	2.25	-2.21	1.35	-4.43	0.01	27.21	1.57	24.64	29.78	0.50	10.29	10.29	10.29
	A	0.90	0.04	1.49	-2.40	2.47	-2.50	1.40	-4.80	-0.21	27.07	1.57	24.49	29.65	0.38	10.67	10.67	10.67
	N	1.00	0.13	-2.15	2.41	-2.66	1.40	-4.96	-0.36	26.94	1.61	24.30	29.58	0.22	10.89	10.89	10.89	

LANDMARK - CERVICALE

(2)

TIME	SAMPLE SIZE/N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	-7.46	1.03	-9.15	-5.77	0.07	1.19	-1.88	2.02	21.41	1.23	19.39	23.44	0.0	0.0	0.0	0.0	
	F	0.10	-7.54	0.69	-8.67	-6.41	0.84	0.81	-0.49	2.17	21.49	1.45	19.11	23.87	0.78	0.78	0.78	0.78
	R	0.20	-7.56	0.94	-9.04	-5.95	1.27	1.02	-0.40	2.93	21.37	1.49	18.93	23.82	0.45	1.23	1.23	1.23
	O	0.30	-7.56	0.72	-8.74	-6.39	1.82	1.16	-0.07	3.72	21.41	1.41	19.10	23.73	0.56	1.79	1.79	1.79
	E	0.40	-7.95	1.11	-9.78	-6.13	1.71	1.12	-0.12	3.54	21.50	1.29	19.38	23.62	0.42	2.20	2.20	2.20
	H	0.50	-7.91	0.97	-9.50	-6.31	1.78	1.17	-0.15	3.71	21.42	1.38	19.19	23.72	0.09	2.30	2.30	2.30
	A	0.60	-8.11	1.18	-12.04	-6.18	2.01	1.49	-0.43	4.46	21.54	1.35	19.32	23.76	0.32	2.62	2.62	2.62
	R	0.70	-7.72	1.14	-9.59	-5.85	2.50	1.39	0.22	4.78	21.84	1.24	19.60	23.87	0.69	3.31	3.31	3.31
	D	0.80	-7.78	1.03	-9.55	-6.01	2.93	1.41	0.62	5.24	21.59	1.21	19.60	23.58	0.50	3.81	3.81	3.81
	O	0.90	-7.86	1.03	-9.54	-6.25	2.22	1.24	1.19	5.25	21.64	1.22	19.66	23.63	0.30	4.11	4.11	4.11
	N	1.00	-7.84	1.03	-9.53	-6.16	3.64	1.36	1.41	5.87	21.72	1.30	19.38	23.85	0.43	4.54	4.54	4.54
0.0	T	-7.84	1.03	-9.53	-6.16	3.64	1.36	1.41	5.87	21.72	1.30	19.58	23.85	0.0	0.0	0.0	0.0	
	F	0.10	-7.86	0.88	-9.30	-6.42	3.67	1.02	2.01	5.34	21.78	1.22	19.78	23.78	0.07	0.07	0.07	0.07
	R	0.20	-8.12	1.55	-10.66	-5.57	3.19	1.17	1.27	5.12	21.66	1.20	19.69	23.63	0.56	0.63	0.63	0.63
	O	0.30	-7.71	1.18	-9.64	-5.77	3.24	0.97	1.65	4.82	21.54	1.11	19.71	23.37	0.43	1.06	1.06	1.06
	E	0.40	-7.69	0.96	-9.26	-6.12	2.74	1.33	0.55	4.92	21.54	1.38	19.25	23.77	0.50	1.56	1.56	1.56
	H	0.50	-7.57	0.96	-9.14	-6.00	1.99	1.74	-0.85	4.84	21.50	1.38	19.30	23.82	0.75	2.31	2.31	2.31
	A	0.60	-7.73	0.87	-8.90	-6.49	1.33	1.46	-1.06	3.73	21.59	1.30	19.56	23.82	0.69	3.00	3.00	3.00
	R	0.70	-7.72	0.87	-9.14	-6.29	0.80	1.30	-1.33	2.93	21.58	1.31	19.54	23.83	0.53	3.53	3.53	3.53
	D	0.80	-7.63	0.94	-9.17	-6.08	0.41	1.33	-1.78	2.59	21.59	1.22	19.58	23.59	0.42	3.95	3.95	3.95
	O	0.90	-7.53	1.01	-9.19	-5.86	0.21	1.19	-1.75	2.17	21.52	1.26	19.44	23.59	0.23	4.18	4.18	4.18
	N	1.00	-7.46	1.03	-9.15	-5.77	0.07	1.19	-1.88	2.02	21.41	1.23	19.39	23.44	0.19	4.37	4.37	4.37

LANDMARK - SUPRASENTNALE (3)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	-2.49	1.08	-4.26	-0.71	-0.33	1.13	-2.19	1.53	20.55	0.99	18.93	22.16	0.0	0.0	0.0	0.0	
0.0	S	7	-3.41	1.15	-5.30	-1.52	0.96	-0.58	2.50	21.12	1.00	19.47	22.76	1.69	1.69	1.69	1.69	
0.10	F	7	-3.62	1.16	-5.52	-1.72	1.41	1.00	-0.22	3.05	21.58	1.01	19.52	22.84	0.50	0.50	0.50	0.50
0.20	O	7	-4.16	1.36	-6.38	-1.93	1.94	1.23	-0.07	3.96	22.28	2.07	17.86	26.70	1.33	1.33	1.33	1.33
0.30	R	7	-4.29	1.43	-6.63	-1.95	2.20	1.18	0.27	4.14	23.42	4.98	15.25	31.58	1.17	1.17	1.17	1.17
0.40	K	7	-4.42	1.37	-6.67	-2.16	2.50	1.17	0.59	4.41	21.52	1.00	19.91	23.19	1.89	1.89	1.89	1.89
0.50	W	7	-4.42	1.30	-6.66	-2.41	2.94	1.20	0.97	4.91	21.71	1.00	20.07	23.35	0.48	0.48	0.48	0.48
0.60	A	7	-4.48	1.20	-6.44	-2.51	3.25	1.19	1.30	5.20	21.94	0.93	20.42	23.45	0.39	0.39	0.39	0.39
0.70	R	7	-4.75	1.22	-6.74	-2.75	3.75	1.51	1.27	6.23	21.31	0.89	20.35	23.28	0.58	0.58	0.58	0.58
0.80	D	7	-4.71	1.12	-6.54	-2.88	4.06	1.53	1.56	6.57	21.85	0.89	20.40	23.31	0.32	0.32	0.32	0.32
0.90	O	7	-4.66	1.14	-6.52	-2.79	4.51	1.30	2.39	6.64	21.83	0.94	20.29	23.38	0.45	0.45	0.45	0.45
1.00	N	7	-4.66	0.0	-6.66	-2.79	4.51	1.30	2.39	6.64	21.83	0.94	20.29	23.38	0.45	0.45	0.45	0.45
0.0	R	7	-4.66	1.14	-6.52	-2.79	4.51	1.30	2.39	6.64	21.83	0.94	20.29	23.38	0.45	0.45	0.45	0.45
0.10	F	7	-4.61	1.04	-6.48	-2.75	4.22	1.07	2.46	5.98	21.98	1.06	20.24	23.73	0.33	0.33	0.33	0.33
0.20	O	7	-4.27	1.10	-5.98	-2.57	3.34	1.08	1.57	5.12	21.70	1.22	19.70	23.70	0.98	1.32	1.32	1.32
0.30	R	7	-4.10	1.13	-5.95	-2.24	2.95	1.09	1.16	4.75	21.48	1.17	19.56	23.40	0.48	1.88	1.88	1.88
0.40	K	7	-3.61	1.26	-5.67	-1.55	2.41	1.35	0.19	4.63	21.14	1.21	19.16	23.12	0.80	2.60	2.60	2.60
0.50	W	7	-3.27	1.38	-5.53	-1.01	1.58	1.64	-1.11	4.27	21.05	1.15	19.16	22.93	0.90	3.51	3.51	3.51
0.60	A	7	-2.91	1.26	-4.98	-0.84	0.80	1.47	-1.61	3.21	20.98	0.99	19.35	22.60	0.86	4.37	4.37	4.37
0.70	R	7	-2.65	1.33	-4.83	-0.46	0.39	1.53	-2.12	2.90	20.87	1.09	19.09	22.65	0.50	4.87	4.87	4.87
0.80	D	7	-2.54	1.39	-4.83	-0.26	0.07	1.35	-2.15	2.29	20.76	1.08	18.99	22.54	0.35	5.22	5.22	5.22
0.90	O	7	-2.56	1.32	-4.73	-0.39	0.03	1.07	-1.73	1.79	20.38	1.07	19.11	22.61	0.11	5.33	5.33	5.33
1.00	N	7	-2.49	1.08	-4.26	-0.71	0.13	-0.33	-2.19	1.53	20.53	0.99	18.93	22.16	0.49	5.82	5.82	5.82

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TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	0.74	-0.42	-3.99	-0.99	-0.98	0.98	-9.69	-6.49	19.44	1.26	17.38	21.51	0.0	0.0	0.0	0.0	
0.0	S	6	-5.74	0.66	-6.82	-4.66	-7.80	0.42	-8.50	-7.11	20.35	1.56	17.49	22.61	0.86	0.86	0.86	0.86
0.20	F	7	-6.51	0.87	-7.93	-5.08	-7.28	0.65	-8.35	-6.22	20.37	1.44	18.00	22.73	0.98	1.84	1.84	1.84
0.30	O	7	-7.02	1.00	-9.21	-5.37	-6.93	0.61	-7.94	-5.92	20.87	1.53	18.37	23.38	0.80	2.64	2.64	2.64
0.40	R	7	-7.41	1.10	-9.21	-5.60	-6.35	0.72	-7.53	-5.18	21.30	1.51	19.19	24.14	1.05	3.09	3.09	3.09
0.50	K	7	-7.35	1.15	-9.24	-5.46	-5.60	0.66	-6.69	-4.52	22.56	1.58	19.88	25.14	1.17	4.86	4.86	4.86
0.60	W	7	-7.53	1.25	-9.57	-5.48	-4.67	0.92	-6.18	-3.17	23.21	1.47	20.79	25.62	1.15	6.01	6.01	6.01
0.70	A	7	-7.76	1.29	-9.88	-5.64	-3.89	0.63	-5.25	-2.54	23.20	1.27	21.58	25.74	0.93	6.94	6.94	6.94
0.80	R	7	-8.09	1.34	-10.29	-5.88	-3.25	1.14	-5.12	-1.38	23.94	1.10	22.11	25.70	0.76	7.70	7.70	7.70
0.90	D	7	-7.96	1.26	-10.02	-5.90	-2.67	1.15	-4.55	-0.79	24.48	0.96	22.50	25.66	0.62	8.32	8.32	8.32
1.00	N	7	-7.84	1.45	-10.21	-5.46	-2.34	1.44	-4.71	0.02	24.32	0.86	22.90	25.73	0.42	8.74	8.74	8.74
0.0	R	7	-7.84	1.12	-10.02	-6.36	-2.72	1.11	-4.55	-0.89	24.08	1.05	22.35	25.81	0.57	0.57	0.57	0.57
0.20	O	7	-8.00	0.86	-9.41	-6.60	-3.41	1.35	-5.62	-1.20	23.33	1.41	21.22	25.83	1.91	1.47	1.47	1.47
0.30	R	7	-7.70	0.61	-8.70	-6.69	-4.36	1.12	-6.20	-2.53	22.91	1.36	20.68	25.15	1.17	2.65	2.65	2.65
0.40	E	7	-7.18	0.97	-8.77	-5.58	-5.47	1.15	-7.36	-3.59	22.40	1.36	19.76	24.23	1.53	4.18	4.18	4.18
0.50	T	7	-6.73	1.07	-8.49	-4.98	-6.46	1.25	-6.46	-1.27	21.47	1.29	19.05	23.30	1.36	5.53	5.53	5.53
0.60	U	6	-6.04	0.53	-5.91	-5.18	-7.09	1.22	-9.09	-5.08	20.57	1.15	18.78	22.55	1.06	6.60	6.60	6.60
0.70	R	6	-5.71	0.49	-6.51	-4.91	-7.51	1.22	-9.51	-5.51	20.24	1.19	18.29	22.18	0.69	7.29	7.29	7.29
0.80	N	6	-5.37	0.59	-6.33	-4.40	-7.77	1.38	-10.04	-5.50	19.34	1.26	17.78	21.91	0.58	7.87	7.87	7.87
0.90	D	6	-5.27	0.67	-6.38	-4.17	-8.06	1.02	-9.73	-6.40	19.59	1.36	17.36	21.83	0.39	8.26	8.26	8.26
1.00	O	6	-5.20	0.74	-6.42	-3.99	-8.09	0.98	-9.69	-6.49	19.44	1.26	17.38	21.51	0.17	8.43	8.43	8.43

LANDMARK - RT GRIP CENTER (16)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE				
		T	SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	F	11.89	0.79	10.60	1.319	-13.12	0.88	-14.56	-11.68	4.59	0.98	2.98	6.19	0.0	0.0	
0.10	F	10.46	0.74	9.25	11.66	-11.89	1.43	-14.23	-9.54	8.15	2.14	4.65	11.65	4.04	4.04	
0.20	F	9.86	0.81	8.53	11.18	-8.78	2.35	-12.64	-4.93	14.57	3.57	8.82	20.52	11.28	11.28	
0.30	F	7.98	1.22	5.97	9.99	-5.20	2.32	-9.01	-1.39	22.22	4.03	15.61	28.33	19.85	19.85	
0.40	R	4.58	1.29	2.46	6.69	-1.35	1.95	-4.55	1.85	29.39	4.02	22.49	35.69	8.58	8.58	
0.50	W	1.52	1.28	-0.58	3.62	2.36	2.01	-0.93	5.65	36.27	3.80	28.04	40.51	28.43	28.43	
0.60	A	0.81	0.99	-2.64	0.82	5.55	2.37	1.65	9.44	38.44	3.11	33.34	43.53	5.74	5.74	
0.70	R	1.86	0.84	-3.23	-0.49	8.06	2.22	4.42	11.71	41.91	2.70	37.48	46.34	4.42	4.42	
0.80	D	0.93	1.81	-3.33	-0.29	9.00	1.02	7.32	10.67	43.16	0.73	41.96	44.35	1.56	1.56	
0.90	N	1.10	1.17	-3.02	0.81	9.54	0.57	8.60	10.48	44.15	0.26	43.74	44.57	1.34	1.34	
1.00	W	0.70	1.44	-3.06	1.66	9.87	0.31	9.36	10.39	44.42	0.18	44.12	44.71	0.58	4.913	
0.0		5	-0.70	1.44	-3.06	1.66	9.87	0.31	9.36	10.39	44.42	0.18	44.12	44.71	0.0	0.0
0.10		6	-1.34	1.43	-3.68	1.00	7.77	1.57	5.20	10.34	40.32	2.31	36.32	44.11	4.65	4.65
0.20		7	0.07	1.95	-3.13	3.26	3.96	2.18	0.38	7.54	35.81	4.14	29.03	42.59	6.07	10.72
0.30		7	3.17	2.49	-2.25	0.91	7.25	2.77	-4.28	4.80	30.26	6.16	19.96	40.16	7.51	18.23
0.40		7	6.69	2.74	-2.20	11.18	-6.23	3.34	-9.71	1.25	23.77	6.95	12.38	35.16	8.49	26.72
0.50		7	9.04	1.71	6.23	11.85	-8.16	3.91	-14.58	-1.75	17.06	6.88	5.78	28.35	8.12	34.84
0.60		7	9.87	1.38	7.61	12.12	-10.97	3.13	-16.10	-5.84	11.14	5.33	2.39	19.89	6.61	41.45
0.70		7	10.86	1.54	8.33	13.39	-12.74	1.98	-15.99	-9.48	6.85	3.21	1.59	12.11	4.74	46.19
0.80		7	11.86	1.18	9.63	13.50	-12.67	1.39	-14.96	-10.38	6.19	2.57	1.98	10.41	4.97	47.16
0.90		7	11.63	1.03	9.94	13.32	-12.99	0.84	-14.36	-11.61	5.04	1.38	2.74	7.28	1.23	48.39
1.00		7	11.89	0.79	10.60	13.12	-13.12	0.88	-14.56	-11.68	4.59	0.98	2.98	6.19	0.52	48.91

LANDMARK - RT TROCHANTER (18)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE				
		T	SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	F	3.33	0.76	2.08	4.57	-7.09	0.91	-5.58	-8.57	-6.39	3.75	0.52	2.89	4.61	0.0	0.0
0.10	F	3.10	0.70	1.96	4.25	-7.48	0.67	-8.57	-6.39	3.54	0.56	2.72	4.56	0.46	0.46	
0.20	F	3.22	0.81	1.89	4.55	-7.40	0.82	-8.75	-6.06	3.54	0.61	2.64	4.64	0.14	0.14	
0.30	F	3.15	0.85	1.76	7.19	-7.19	0.79	-8.49	-5.90	3.66	0.67	2.57	4.76	0.22	0.82	
0.40	R	3.31	0.84	1.93	4.68	-7.11	0.99	-8.74	-5.49	3.59	0.66	2.51	4.67	0.19	1.01	
0.50	W	3.29	0.83	1.93	4.66	-7.11	0.96	-8.68	-5.53	3.67	0.71	2.51	4.83	0.08	1.09	
0.60	A	3.20	0.96	1.63	4.78	-7.09	1.19	-9.04	-5.14	3.70	0.67	2.59	4.81	0.10	1.19	
0.70	R	2.99	0.93	1.46	4.52	-6.79	1.48	-9.23	-4.36	3.90	0.74	2.68	5.12	0.41	1.63	
0.80	D	3.17	0.75	1.94	4.40	-6.87	1.28	-8.66	-4.77	3.88	0.66	2.80	4.96	1.80	2.11	
0.90	N	3.47	1.02	1.80	5.14	-6.81	1.14	-8.68	-4.93	3.89	0.62	2.87	4.90	0.31	2.11	
1.00	W	3.19	0.87	1.76	4.62	-7.32	0.74	-8.53	-6.10	4.02	0.38	3.39	4.65	0.60	2.71	
0.0		6	3.19	0.87	1.76	4.62	-7.32	0.74	-8.53	-6.10	4.02	0.38	3.39	4.65	0.0	0.0
0.10		7	3.29	2.04	0.66	4.32	-7.15	0.85	-8.29	-5.49	3.95	0.73	2.76	5.14	0.45	0.45
0.20		7	3.24	0.66	2.16	4.38	-7.09	0.97	-8.74	-5.55	3.92	0.68	2.80	5.05	0.26	0.71
0.30		7	3.30	0.66	2.21	4.65	-7.12	0.87	-8.52	-5.67	3.83	0.67	2.72	4.93	0.13	0.84
0.40		7	3.44	0.73	2.24	4.65	-7.12	0.92	-8.62	-5.61	3.72	0.71	2.56	4.89	0.18	1.02
0.50		7	3.43	1.01	1.77	5.09	-7.25	0.94	-8.79	-5.71	3.71	0.67	2.61	4.80	0.14	1.15
0.60		7	3.14	1.39	0.86	5.42	-7.38	1.09	-9.16	-5.59	3.73	0.61	2.70	4.71	0.32	1.47
0.70		7	3.23	1.22	1.22	5.23	-7.37	1.01	-9.04	-5.71	3.73	0.66	2.63	4.78	0.09	1.57
0.80		7	3.47	0.73	2.27	4.67	-7.14	0.84	-8.52	-5.77	3.73	0.57	2.76	4.61	0.33	1.90
0.90		7	3.45	0.87	2.02	4.89	-7.13	0.92	-8.63	-5.63	3.74	0.51	2.88	4.64	0.04	1.94
1.00		7	3.33	0.76	2.08	4.57	-7.09	0.91	-8.58	-5.60	3.75	0.52	2.89	4.61	0.14	2.08

LANDMARK - RT KNEE TOP (20)

TIME	SAMPLE	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	
0.0	7	19.05	0.59	18.08	20.02	0.64	-6.70	-3.93	11.26	1.09	9.48
F 0.10	7	18.85	0.64	17.81	19.90	-5.32	-5.46	-3.66	11.35	0.98	9.74
R 0.20	7	19.03	0.50	18.21	19.86	-5.40	1.08	-7.17	-3.63	1.01	9.68
U 0.30	7	18.82	0.52	17.97	19.67	-5.42	1.08	-7.19	-3.66	1.01	12.95
R 0.40	7	18.83	0.64	17.78	19.87	-5.54	1.02	-7.21	-3.87	1.00	12.99
W 0.50	7	18.88	0.51	18.05	19.72	-5.44	1.07	-7.19	-3.69	1.00	12.87
A 0.60	7	18.96	0.62	17.95	19.40	-5.40	1.05	-7.12	-3.67	1.00	12.87
R 0.70	7	18.97	0.59	18.00	19.95	-5.41	1.02	-7.08	-3.73	1.00	12.87
D 0.80	7	18.96	0.59	17.99	19.92	-5.22	0.91	-6.71	-3.73	1.00	12.99
O 0.90	7	18.85	0.59	17.88	19.82	-5.15	0.98	-6.76	-3.54	0.97	12.87
1.00	7	18.91	0.63	17.88	19.94	-5.26	0.94	-6.80	-3.72	1.00	12.87
0.0	7	18.91	0.63	17.88	19.94	-5.26	0.94	-6.80	-3.72	1.00	12.87
0.10	7	18.94	0.82	17.60	20.27	-5.20	1.04	-6.90	-3.49	1.00	12.87
0.20	7	18.94	0.70	17.79	20.09	-5.37	1.06	-7.11	-3.62	1.00	12.87
R 0.30	7	18.99	0.63	17.96	20.02	-5.17	0.98	-6.87	-3.66	1.00	12.95
E 0.40	7	19.07	0.52	18.21	19.92	-5.21	0.94	-6.76	-3.67	1.00	12.95
T 0.50	7	18.99	0.59	18.03	19.95	-5.26	0.88	-6.71	-3.81	1.00	12.95
O 0.60	7	19.01	0.49	18.21	19.81	-5.20	0.95	-6.76	-3.63	1.00	12.95
R 0.70	7	19.07	0.47	18.29	19.84	-5.23	0.93	-6.76	-3.71	1.00	12.95
N 0.80	7	19.04	0.58	18.10	19.99	-5.23	0.86	-6.64	-3.83	1.00	12.95
O 0.90	7	18.98	0.60	18.00	19.97	-5.22	0.92	-6.73	-3.71	1.00	12.95
1.00	7	19.05	0.59	18.08	20.02	-5.32	0.84	-6.70	-3.93	1.00	12.95

LANDMARK - RT SHOULDER CENTER (21)

TIME	SAMPLE	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	
0.0	6	-3.53	0.97	-5.13	-1.94	0.93	-9.42	6.35	17.25	0.82	15.90
O 0.10	7	-4.26	0.86	-5.67	-2.86	0.53	-8.13	-6.40	18.13	1.06	16.40
F 0.20	7	-4.10	0.76	-5.94	-3.46	0.69	-5.84	18.78	16.88	0.83	20.68
O 0.30	7	-4.95	0.83	-6.30	-3.58	0.61	-7.93	19.50	1.49	17.07	21.94
R 0.40	7	-4.75	0.82	-6.10	-3.41	0.74	-7.43	5.00	20.81	2.26	17.10
W 0.50	7	-4.35	0.88	-5.78	-2.91	0.85	-7.17	4.39	22.41	1.81	19.43
A 0.60	7	-4.70	1.12	-6.53	-4.86	0.86	-6.12	3.31	23.40	1.77	20.58
R 0.70	7	-4.97	1.07	-6.72	-3.22	0.79	-4.83	2.29	24.31	1.33	26.50
D 0.80	7	-5.33	1.25	-7.39	-3.28	0.99	-4.31	1.07	24.78	1.07	26.54
O 0.90	7	-5.46	1.18	-7.43	-3.53	0.97	-3.70	0.53	24.94	1.01	23.29
1.00	7	-5.58	1.13	-7.43	-3.73	2.00	1.21	-3.98	0.02	25.14	0.84
0.0	7	-5.58	1.13	-7.43	-3.73	2.00	1.21	-3.98	0.02	25.14	0.84
O 0.10	7	-5.25	0.88	-6.70	-3.80	2.81	0.85	-4.21	-1.42	24.79	1.17
O 0.20	7	-4.95	0.87	-6.39	-3.53	4.28	1.19	-6.24	-2.32	23.47	1.38
R 0.30	7	-4.82	0.61	-5.82	-3.82	-5.08	1.07	-6.83	-3.33	22.07	1.35
R 0.40	7	-4.76	0.72	-5.94	-3.59	-5.91	1.04	-7.61	-4.20	20.41	1.40
T 0.50	7	-4.78	0.91	-6.28	-3.29	-6.70	1.16	-8.60	-4.79	19.20	1.37
U 0.60	7	-4.61	0.80	-5.92	-3.30	-7.17	1.10	-8.96	-5.37	18.36	1.21
R 0.70	7	-4.25	0.78	-5.52	-2.98	-7.46	0.89	-8.91	-6.00	17.83	1.02
N 0.80	7	-3.90	0.92	-5.41	-2.39	-7.65	0.94	-9.19	-6.11	17.36	1.17
O 0.90	7	-3.72	0.80	-5.03	-2.40	-7.64	0.79	-8.94	-6.35	17.34	0.92
1.00	6	-3.53	0.97	-5.13	-2.00	-5.13	1.13	-9.42	-6.35	17.25	0.82

LANDMARK - RT ELBOW CENTER (24)

TIME	SAMPLE	(---X - CO-ORDINATE---					(---Y - CO-ORDINATE---					(---Z - CO-ORDINATE---								
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	7	0.21	0.47	-0.56	0.98	-9.81	0.81	-11.14	-8.48	8.05	1.51	5.56	10.53	0.0	0.0	0.0	0.0	0.0	0.0	
F	7	-1.14	0.96	-2.72	0.45	-10.27	1.06	-12.01	-8.53	8.42	1.35	6.21	10.63	1.47	1.47	1.47	1.47	1.47	1.47	
R	0.20	-0.81	1.26	-1.08	1.25	-10.28	1.17	-12.20	-8.36	9.50	6.38	12.61	1.13	2.60	2.60	2.60	2.60	2.60	2.60	
O	0.30	7	1.74	1.35	-0.48	3.96	-10.26	1.12	-12.10	-8.41	12.49	3.18	7.28	17.71	3.93	6.53	6.53	6.53	6.53	6.53
R	0.40	7	4.29	1.36	2.06	6.53	-11.26	-6.25	-11.26	-6.25	19.13	3.75	12.97	25.28	7.27	13.79	13.79	13.79	13.79	13.79
M	0.50	7	4.45	1.85	1.41	7.48	-6.01	1.58	-6.01	1.58	25.44	3.42	19.71	31.18	6.89	20.69	20.69	20.69	20.69	20.69
A	0.60	7	2.74	2.15	-0.79	6.27	-3.38	1.27	-5.46	-1.30	29.58	2.56	25.38	33.79	5.19	25.98	25.98	25.98	25.98	25.98
R	0.70	7	0.77	1.87	-2.29	3.83	-1.16	0.88	-2.61	0.28	32.02	1.45	29.63	34.40	3.83	29.71	29.71	29.71	29.71	29.71
D	0.80	7	-0.80	1.24	-2.83	1.22	0.34	0.62	-0.67	1.35	33.04	0.94	31.50	34.58	2.40	32.12	32.12	32.12	32.12	32.12
N	0.90	7	-1.34	0.80	-2.65	0.85	-0.04	0.61	0.22	2.24	33.52	0.77	32.26	34.78	1.15	33.26	33.26	33.26	33.26	33.26
O	1.00	7	-1.67	0.72	-2.85	-0.49	1.69	0.75	0.46	2.92	33.54	0.68	32.50	34.71	0.57	33.83	33.83	33.83	33.83	33.83

LANDMARK - RT WRIST CENTER (26)

TIME	SAMPLE	(---X - CO-ORDINATE---					(---Y - CO-ORDINATE---					(---Z - CO-ORDINATE---									
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
0.0	7	8.83	0.61	7.82	9.83	-12.10	0.79	-13.07	-6.83	13.5	0.68	32.50	34.71	0.0	0.0	0.0	0.0	0.0	0.0		
O	0.10	7	8.01	0.63	6.98	9.05	-10.91	1.45	-13.28	-8.54	8.49	1.34	29.03	34.67	4.84	4.84	4.84	4.84	4.84		
F	0.20	7	7.37	1.26	5.30	9.44	-8.47	2.51	-12.58	-4.36	14.24	2.82	23.28	32.54	5.38	10.22	10.22	10.22	10.22		
U	0.30	7	6.14	1.35	3.92	8.36	-5.07	3.96	-11.57	-1.43	22.05	3.81	28.37	6.42	1.64	1.64	1.64	1.64	1.64		
R	0.40	7	4.29	0.81	2.96	5.62	-2.31	2.55	-6.50	-1.87	27.81	3.79	21.96	6.64	2.37	2.37	2.37	2.37	2.37		
T	0.50	7	-0.10	1.78	-3.02	2.81	-10.39	1.17	-12.31	-8.48	11.66	2.89	6.92	16.40	4.56	27.84	27.84	27.84	27.84	27.84	
U	0.60	7	-0.90	1.52	-3.39	1.59	-10.46	0.94	-12.00	-8.92	10.04	2.20	6.44	13.65	1.81	29.64	29.64	29.64	29.64	29.64	
R	0.70	7	-0.82	1.30	-2.95	1.31	-10.48	0.99	-12.10	-8.85	9.18	1.16	12.21	0.86	30.51	30.51	30.51	30.51	30.51		
N	0.80	7	-0.23	1.34	-2.42	1.96	-10.22	0.94	-11.76	-8.55	1.67	5.92	11.38	0.84	31.34	31.34	31.34	31.34	31.34		
O	0.90	7	0.13	0.95	-1.44	1.69	-9.86	0.95	-11.42	-8.31	8.33	1.61	5.69	10.97	0.60	31.94	31.94	31.94	31.94	31.94	
M	1.00	7	0.21	0.47	-0.56	0.56	0.98	-9.81	0.81	-11.14	-8.48	8.05	1.51	5.56	10.53	0.30	32.24	32.24	32.24	32.24	32.24

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +18.0, +10.0, +12.4 TO OVER-HEAD CONTROLLER AT 0.0, +10.0, +45.0 AND RETURNS. RIGHT HAND REMAINS AT STICK CONTROLLER AT +20.0, 0.0, +15.0.

MOTION NUMBER - 21230
BACK ANGLE - 30

SUB-MOVEMENT	TIME DATA		
	MEAN	STD DEV	RANGE
LEFT FWD	0.77	0.11	0.60 TO 0.90 SECS.
LEFT REV	0.70	0.12	0.60 TO 0.90 SECS.

LANDMARK - NASION

(1)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)			(- - - - Y - CO-ORDINATE - - - -)			(- - - - Z - CO-ORDINATE - - - -)								
		MEAN	SE	95 PCT	MEAN	SE	95 PCT	MEAN	SE	95 PCT						
0.0	T	0.02	1.29	-2.09	2.13	0.11	1.24	-2.15	1.93	27.85	1.13	26.00	29.70	0.0	0.0	
0.10	T	7	-2.25	1.55	-4.78	0.28	0.55	0.99	-1.07	2.18	29.53	0.91	28.13	31.12	2.96	2.96
F 0.20	T	7	-3.47	1.67	-6.20	-0.73	0.40	0.62	-0.62	1.41	30.19	1.05	28.47	31.92	1.35	4.31
O 0.30	T	7	-3.83	1.61	-6.47	-1.18	0.29	0.65	-0.77	1.35	30.14	0.95	28.58	31.71	0.38	4.69
R 0.40	T	7	-4.13	1.54	-6.65	-1.61	0.22	0.71	-0.94	1.38	30.16	0.80	28.85	31.96	0.31	5.00
W 0.50	T	7	-4.37	1.52	-6.87	-1.87	0.20	0.77	-1.05	1.46	30.35	0.99	28.73	31.97	0.31	5.31
A 0.60	T	7	-4.43	1.51	-7.01	-1.85	0.16	0.86	-1.07	1.76	30.36	1.08	28.60	32.13	0.15	5.46
R 0.70	T	7	-4.65	1.57	-7.03	-1.88	0.21	0.64	-0.84	1.25	30.36	1.12	28.36	32.20	0.14	5.61
D 0.80	T	7	-4.57	1.47	-6.98	-2.17	0.09	0.76	-1.15	1.34	30.34	1.12	28.49	32.18	0.16	5.77
O 0.90	T	7	-4.54	1.22	-6.54	-2.25	-0.08	0.85	-1.47	1.31	30.31	1.18	28.38	32.24	0.18	5.95
1.00	T	7	-4.35	1.23	-6.38	-2.35	-0.16	0.66	-1.25	0.92	30.22	1.31	28.07	32.36	0.22	6.16
0.0		7	-4.36	1.23	-6.38	-2.35	-0.16	0.66	-1.25	0.92	30.22	1.31	28.07	32.36	0.0	0.0
0.10		7	-2.03	1.29	-4.29	-4.29	0.07	0.88	-1.52	1.38	28.30	1.53	26.29	31.32	2.69	2.69
0.20		7	-1.33	1.08	-2.79	-0.73	-0.08	1.09	-1.88	1.71	28.22	1.34	26.01	30.42	1.20	3.89
R 0.30		7	-0.84	1.02	-2.51	0.82	-0.18	1.08	-1.95	1.63	29.08	1.35	25.87	30.30	0.25	4.14
E 0.40		7	-0.87	0.91	-2.36	0.63	-0.18	1.14	-2.05	1.70	28.01	1.32	25.84	30.18	0.07	4.21
T 0.50		7	-0.80	0.89	-2.25	0.65	-0.33	1.32	-2.50	1.84	27.94	1.23	25.93	29.96	0.18	4.39
U 0.60		7	-0.49	0.77	-1.74	0.77	-0.38	1.28	-2.49	1.72	28.01	1.17	26.09	29.94	0.32	4.72
R 0.70		7	-0.19	0.85	-1.58	1.35	-0.45	1.35	-2.66	1.75	28.05	1.19	26.01	30.01	0.31	5.03
N 0.80		7	-0.05	1.13	-1.90	1.80	-0.27	1.41	-2.58	2.04	27.95	1.18	26.01	29.89	0.25	5.27
O 0.90		7	-0.01	1.23	-2.03	2.01	-0.14	1.39	-2.42	2.14	27.89	1.19	25.94	29.94	0.14	5.42
1.00		7	0.02	1.29	-2.09	2.13	-0.11	1.24	-2.15	1.93	27.35	1.13	26.00	29.70	0.06	5.48

LANDMARK - CERVICALE

(2)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)			(- - - - Y - CO-ORDINATE - - - -)			(- - - - Z - CO-ORDINATE - - - -)								
		MEAN	SE	95 PCT	MEAN	SE	95 PCT	MEAN	SE	95 PCT						
0.0	T	7	-6.65	1.74	-9.50	-3.79	-1.17	0.85	-2.56	21.65	1.15	19.76	23.54	0.0	0.0	
O 0.10	T	7	-6.86	1.46	-9.26	-4.47	1.22	1.01	-2.88	0.44	-2.52	1.06	23.26	0.26	0.26	
F 0.20	T	7	-7.04	1.24	-9.06	-5.02	-1.62	0.86	-3.02	-0.21	-21.47	1.18	19.54	23.40	0.44	0.69
O 0.30	T	7	-7.15	1.10	-8.95	-5.35	-1.96	0.83	-3.31	-0.61	-21.48	1.19	19.52	23.44	0.36	1.05
R 0.40	T	7	-7.25	1.25	-9.31	-5.20	-1.88	0.85	-3.28	-0.49	-21.39	1.06	19.65	23.12	0.16	1.21
W 0.50	T	7	-7.37	1.44	-9.73	-5.02	-1.77	0.96	-3.35	-0.20	-21.40	1.06	19.67	23.14	0.16	1.38
A 0.60	T	7	-7.55	1.25	-9.60	-5.49	-1.79	0.82	-3.13	-0.45	-21.42	1.18	19.51	23.38	0.18	1.56
R 0.70	T	7	-7.49	1.06	-9.23	-5.94	0.65	-3.00	-0.87	-2.47	-1.23	1.23	19.46	23.49	0.16	1.71
D 0.80	T	7	-7.56	0.93	-9.09	-6.03	-1.94	0.56	-2.86	-1.02	-21.53	1.22	19.53	23.53	0.09	1.80
O 0.90	T	7	-7.53	1.00	-9.16	-5.89	-2.04	0.62	-3.06	-1.02	-21.59	1.16	19.68	23.50	0.12	1.92
1.00	T	7	-7.37	1.17	-9.29	-5.45	-2.14	0.79	-3.44	-0.85	-21.52	1.15	19.63	23.40	0.20	2.12
0.0		7	-7.37	1.17	-9.29	-5.45	-2.14	0.79	-3.44	-0.85	-21.52	1.15	19.63	23.40	0.0	0.0
0.10		7	-7.33	1.13	-9.18	-5.48	-2.00	0.86	-3.42	-0.59	-21.57	1.24	19.53	23.61	0.15	0.15
O 0.20		7	-7.30	1.20	-9.28	-5.33	-2.02	0.88	-3.46	-0.57	-21.64	1.21	19.63	23.59	0.06	0.21
R 0.30		7	-7.25	1.21	-9.23	-5.27	-2.04	0.95	-3.59	-0.49	-21.59	1.17	19.68	23.51	0.06	0.27
E 0.40		7	-7.30	1.20	-9.28	-5.33	-1.89	0.97	-3.48	-0.29	-21.56	1.24	19.63	23.69	0.18	0.45
T 0.50		7	-7.38	1.27	-9.47	-5.29	-1.63	0.92	-3.15	-0.12	-21.54	1.33	19.50	23.87	0.26	0.71
U 0.60		7	-7.11	1.25	-9.18	-5.04	-1.49	1.00	-3.13	0.16	-21.59	1.23	19.68	23.70	0.31	1.02
R 0.70		7	-6.90	1.34	-9.09	-4.71	-1.50	1.00	-3.14	0.14	-21.57	1.17	19.76	23.58	0.21	1.23
N 0.80		7	-6.83	1.49	-9.27	-4.40	-1.43	0.93	-2.96	0.10	-21.69	1.22	19.69	23.70	0.10	1.33
O 0.90		7	-6.78	1.65	-9.49	-4.08	-1.29	0.88	-2.74	0.16	-21.74	1.26	19.64	23.79	0.15	1.46
1.00		7	-6.65	1.74	-9.50	-3.79	-1.17	0.85	-2.56	0.23	-21.55	1.15	19.76	23.54	0.19	1.67

LANDMARK - SUPRASTERNAL (3)

TIME	SAMPLE SIZE,N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T 0.0	7	-3.19	1.35	-0.40	-0.98	-0.85	1.46	-3.24	1.55	21.03	0.69	19.89	22.17	0.0	0.0	0.0	0.0
F 0.20	7	-3.50	0.61	-4.51	-2.49	-0.67	1.28	-2.77	1.44	21.35	0.77	12.79	22.31	0.36	0.36	0.36	0.36
O 0.30	7	-3.85	0.58	-4.80	-2.90	-1.00	1.20	-2.97	0.97	21.09	0.87	19.66	22.52	0.48	0.85	0.85	0.85
R 0.40	7	-4.10	0.40	-4.77	-3.44	-1.28	1.28	-3.38	0.82	21.19	0.86	19.78	22.60	0.39	1.24	1.24	1.24
E 0.40	7	-4.08	0.69	-5.21	-2.95	-1.27	1.35	-3.43	0.93	21.28	0.71	20.12	22.44	0.09	1.33	1.33	1.33
N 0.50	7	-3.96	0.84	-5.33	-2.58	-1.14	1.33	-3.33	1.04	21.33	0.68	20.22	22.44	0.19	1.51	1.51	1.51
A 0.60	7	-4.03	0.80	-5.35	-2.72	-1.05	1.26	-3.12	1.02	21.34	0.80	20.03	22.66	0.12	1.64	1.64	1.64
R 0.70	7	-4.17	0.69	-5.30	-3.04	-1.12	1.27	-3.19	0.96	21.45	0.91	19.95	22.95	0.18	1.82	1.82	1.82
D 0.80	7	-4.28	0.74	-5.50	-3.07	-1.15	1.30	-3.28	0.98	21.50	0.99	19.88	23.12	0.13	1.95	1.95	1.95
N 0.90	7	-4.17	0.80	-5.48	-2.86	-1.20	1.28	-3.30	0.90	21.54	1.13	19.76	23.46	0.17	2.12	2.12	2.12
1.00	7	-3.99	0.75	-5.22	-2.76	-1.33	1.34	-3.52	0.87	21.54	1.01	19.96	23.26	0.22	2.34	2.34	2.34
0.0	7	-3.99	0.75	-5.22	-2.76	-1.33	1.34	-3.52	0.87	21.64	1.01	19.96	23.26	0.0	0.0	0.0	0.0
0.10	7	-3.97	0.98	-5.58	-2.36	-1.11	1.51	-3.59	1.37	21.48	0.95	19.92	23.03	0.25	0.25	0.25	0.25
0.20	7	-3.99	1.01	-5.01	-2.33	-1.17	1.51	-3.65	1.31	21.38	0.85	19.98	22.78	0.12	0.37	0.37	0.37
R 0.30	7	-3.89	0.94	-5.43	-2.35	-1.19	1.59	-3.79	1.51	21.29	0.81	19.96	22.62	0.14	0.51	0.51	0.51
E 0.40	7	-3.50	0.88	-4.93	-2.06	-0.77	1.47	-3.17	1.64	21.22	0.76	13.97	22.46	0.58	1.09	1.09	1.09
T 0.50	7	-3.26	1.05	-4.98	-1.54	-0.60	1.35	-2.82	1.63	21.21	0.78	19.94	22.48	0.29	1.38	1.38	1.38
T 0.60	7	-3.14	0.70	-4.70	-2.00	-0.54	1.28	-2.63	1.55	21.17	0.66	20.00	22.15	0.19	1.57	1.57	1.57
R 0.70	7	-3.02	0.53	-3.59	-2.16	-0.64	1.29	-2.76	1.49	21.32	0.69	19.88	22.15	0.16	1.73	1.73	1.73
N 0.80	7	-2.95	0.58	-3.91	-2.00	-0.63	1.24	-2.67	1.42	20.99	0.69	19.86	22.12	0.08	1.81	1.81	1.81
N 0.90	7	-2.93	0.60	-3.91	-1.95	-0.59	1.17	-2.51	1.33	20.99	0.70	19.83	22.14	0.04	1.85	1.85	1.85
1.00	7	-3.19	1.35	-5.40	-0.85	-0.98	1.46	-3.24	1.55	21.03	0.69	19.89	22.17	0.36	2.21	2.21	2.21

LANDMARK - LT ACROMION (5)

TIME	SAMPLE SIZE,N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T 0.0	7	-5.80	0.95	-7.35	-4.24	7.21	0.90	5.74	8.68	20.95	0.87	19.52	22.37	0.0	0.0	0.0	0.0
F 0.20	7	-6.47	1.06	-8.20	-4.73	6.99	1.32	4.83	9.16	20.76	0.98	19.16	22.36	0.73	0.73	0.73	0.73
O 0.30	7	-7.03	0.96	-8.60	-5.46	6.80	0.87	5.37	8.23	20.85	1.01	19.03	22.66	0.60	1.33	1.33	1.33
R 0.40	7	-7.55	0.80	-8.80	-6.24	6.59	0.73	5.39	7.79	20.97	1.11	19.15	22.80	0.57	1.90	1.90	1.90
E 0.40	7	-8.04	0.69	-9.17	-6.91	6.47	0.80	5.16	7.78	21.22	1.10	19.42	23.02	0.56	2.47	2.47	2.47
N 0.50	7	-8.37	1.07	-9.77	-6.62	6.38	0.81	5.06	7.70	21.59	1.17	19.67	23.52	0.50	2.97	2.97	2.97
R 0.60	6	-8.45	1.09	-10.24	-6.66	5.78	0.99	4.16	7.39	21.92	1.31	19.68	23.96	0.65	3.62	3.62	3.62
R 0.70	6	-8.49	0.95	-10.04	-6.93	5.49	0.83	4.14	6.85	21.91	1.29	19.79	24.03	0.30	3.92	3.92	3.92
D 0.80	6	-8.69	0.91	-10.18	-7.20	5.92	0.83	4.05	6.78	22.08	1.24	20.05	24.11	0.28	4.20	4.20	4.20
O 0.90	6	-8.64	0.88	-10.09	-7.19	5.32	0.90	3.84	6.79	22.24	1.24	20.19	24.25	0.18	4.37	4.37	4.37
T 0.50	7	-8.45	0.77	-9.71	-7.18	5.39	0.76	4.14	6.64	22.23	1.30	20.11	24.36	0.21	4.58	4.58	4.58
0.0	6	-8.45	0.77	-9.71	-7.18	5.39	0.76	4.14	6.64	22.23	1.30	20.11	24.36	0.0	0.0	0.0	0.0
0.10	6	-8.65	0.80	-9.96	-7.35	5.28	0.70	4.12	6.44	22.24	1.35	19.99	24.43	0.23	4.43	4.43	4.43
0.20	6	-8.79	0.83	-10.14	-7.43	5.40	0.67	4.31	6.50	22.45	1.24	20.11	24.18	0.19	4.42	4.42	4.42
R 0.30	6	-8.86	1.12	-10.70	-7.02	6.01	1.04	4.30	7.72	22.02	1.25	19.97	24.08	0.63	1.05	1.05	1.05
E 0.40	6	-8.35	1.11	-10.17	-6.54	6.22	0.86	4.80	7.63	21.75	1.09	19.96	23.53	0.61	1.46	1.46	1.46
N 0.50	7	-7.46	0.79	-8.75	-6.18	6.19	0.61	5.19	7.19	21.65	1.15	19.77	23.53	0.89	2.56	2.56	2.56
U 0.60	7	-6.80	0.88	-8.24	-6.52	6.52	0.73	5.32	7.73	21.44	1.07	19.66	23.15	0.78	3.34	3.34	3.34
R 0.70	7	-6.65	1.56	-9.20	-4.09	6.51	0.82	5.17	7.86	21.08	1.06	19.35	22.81	0.36	3.0	3.0	3.0
N 0.80	7	-7.36	4.02	-13.94	-0.77	5.84	2.87	1.13	10.55	20.64	1.59	18.01	23.21	1.49	4.78	4.78	4.78
O 0.90	7	-6.89	3.16	-12.07	-1.71	6.28	2.06	2.89	9.67	20.54	1.37	18.40	22.88	0.64	5.42	5.42	5.42
1.00	7	-5.80	0.95	-7.35	-4.24	7.21	0.90	5.74	8.68	20.95	0.87	19.52	22.37	1.47	6.89	6.89	6.89

LANDMARK - LT GRIP CENTER (17)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE									
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT				
0.0	T	16.79	0.53	15.92	17.66	9.73	0.47	8.97	10.49	12.87	0.40	12.22	13.52	0.0	0.0	0.0	0.0				
0.0	SIZE,N	6	13.66	2.17	10.11	17.22	9.00	0.79	8.61	11.19	18.48	0.07	11.81	25.16	6.43	6.43	6.43	6.43			
0.10	F	9.72	3.86	3.43	16.01	9.43	0.65	8.37	10.50	25.46	5.80	15.95	34.97	8.03	14.46	8.03	14.46	8.03	14.46		
0.20	R	5.77	5.54	-3.31	14.85	9.04	0.69	7.92	10.16	29.92	6.55	19.18	40.65	5.97	20.42	5.97	20.42	5.97	20.42		
0.30	E	2.97	2.22	-0.66	6.61	9.00	0.67	7.90	10.10	32.97	3.49	27.25	38.70	4.14	24.57	4.14	24.57	4.14	24.57		
0.40	W	0.50	0.45	2.43	3.54	9.13	0.80	7.81	10.45	37.08	4.17	30.23	43.92	5.34	23.91	5.34	23.91	5.34	23.91		
0.50	A	0.60	-3.00	3.43	-8.63	2.63	9.01	0.99	7.39	10.63	40.59	3.14	35.55	45.83	4.42	34.33	4.42	34.33	4.42	34.33	
0.60	R	0.70	6	-2.43	1.23	-4.45	-0.41	9.34	0.58	8.38	10.29	41.53	1.05	39.82	43.25	1.07	35.40	1.07	35.40	1.07	35.40
0.70	D	0.80	6	-2.24	1.41	-4.55	-0.06	9.47	0.55	8.57	10.37	42.58	0.83	41.22	43.94	1.07	36.47	1.07	36.47	1.07	36.47
0.80	N	0.90	5	-2.21	0.98	-3.81	-0.60	9.55	0.31	9.05	10.06	42.82	0.47	42.04	43.60	0.26	36.73	0.26	36.73	0.26	36.73
0.90	O	1.00	5	-1.57	0.60	-2.55	-0.58	9.77	0.50	8.94	10.59	42.91	0.50	42.08	43.74	0.68	37.41	0.68	37.41	0.68	37.41
1.00																					

LANDMARK - LT TROCHANTER (19)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	3.02	0.60	2.03	4.01	6.81	0.75	5.59	8.03	3.54	0.39	2.91	4.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	F	2.97	0.31	2.52	3.53	6.91	0.85	5.51	8.33	3.49	0.33	2.95	4.06	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
0.20	R	3.03	0.35	2.40	3.07	6.66	0.81	5.35	7.96	3.48	0.32	2.51	3.84	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	
0.30	E	3.03	0.58	2.07	3.99	6.54	0.94	4.99	8.03	3.52	0.33	2.98	4.01	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	
0.40	W	3.22	0.90	1.74	4.71	6.62	0.96	5.05	8.19	3.50	0.32	3.04	4.08	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	
0.50	A	3.24	1.03	1.55	4.92	6.58	0.94	5.04	8.13	3.57	0.35	2.99	4.15	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	
0.60	R	3.23	1.04	1.53	4.94	6.57	0.79	5.27	7.87	3.63	0.40	2.97	4.28	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	
0.70	O	3.15	0.74	2.02	4.44	6.69	0.74	5.48	7.91	3.59	0.40	2.94	4.24	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	
0.80	D	3.14	0.64	2.09	4.21	6.68	0.85	5.28	8.08	3.51	0.44	2.89	4.33	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
0.90	N	3.14	0.57	2.21	4.07	6.63	0.84	5.25	8.02	3.65	0.40	2.91	4.40	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	
1.00	O	3.27	0.45	2.53	4.02	6.80	0.86	5.39	8.21	3.64	0.45	2.91	4.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.0		7	3.27	0.45	2.53	4.02	6.80	0.86	5.39	8.21	3.64	0.45	2.91	4.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.10		7	3.08	0.59	2.26	4.18	6.66	0.96	5.10	8.23	3.50	0.45	2.87	4.34	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
0.20		7	2.97	0.55	2.06	4.06	6.64	0.88	5.19	8.09	3.61	0.43	2.90	4.31	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
0.30		7	2.97	0.55	2.06	4.06	6.77	0.68	5.66	7.88	3.59	0.47	2.81	4.36	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
0.40		7	3.00	0.56	2.19	3.92	6.93	0.67	5.82	8.03	3.51	0.45	2.77	4.25	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
0.50		7	2.99	0.57	2.06	3.93	7.00	0.72	5.81	8.19	3.47	0.45	2.73	4.21	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
0.60		7	3.08	0.50	2.26	3.90	6.87	0.73	5.66	8.07	3.51	0.44	2.80	4.23	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
0.70		7	3.08	0.49	2.27	3.89	6.61	1.01	4.95	8.26	3.54	0.42	2.81	4.20	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
0.80		7	3.16	0.72	1.98	4.34	6.69	0.88	5.24	8.14	3.50	0.41	2.81	4.18	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
0.90		7	3.17	0.84	1.80	4.54	6.83	0.80	5.52	8.15	3.52	0.44	2.81	4.24	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
1.00		7	3.02	0.60	2.03	4.01	6.81	0.75	5.59	8.03	3.54	0.39	2.91	4.18	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16

LANDMARK - LT KNEE TOP (21)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T SIZE, N 6	19.07	1.06	17.34	20.81	5.48	0.70	4.33	6.63	11.30	1.33	9.12	13.47	0.0	0.0	5 PCT	95 PCT
0.10	F	19.00	0.74	17.79	20.21	5.71	0.49	4.90	6.51	11.69	1.11	9.87	13.52	0.46	0.46	5 PCT	95 PCT
0.20	R	18.99	0.71	17.83	20.15	5.54	0.60	4.55	6.53	11.72	1.16	9.82	13.63	2.17	0.63	5 PCT	95 PCT
0.30	E	19.02	0.74	17.80	20.25	5.30	0.79	4.01	6.60	11.85	1.16	9.94	13.75	0.27	0.50	5 PCT	95 PCT
0.40	T	19.92	1.88	16.83	23.00	4.87	1.68	2.12	7.62	11.88	1.09	10.10	13.67	0.99	1.89	5 PCT	95 PCT
0.50	A	19.79	1.55	17.25	22.33	5.02	1.32	2.85	7.19	11.86	1.12	10.02	13.69	0.20	2.09	5 PCT	95 PCT
0.60	R	19.79	1.97	17.73	21.24	5.14	0.95	3.59	6.69	11.95	1.20	9.88	13.82	0.32	2.42	5 PCT	95 PCT
0.70	D	20.22	2.15	16.70	23.75	4.72	1.83	1.73	7.71	11.95	1.24	9.92	13.99	0.85	3.27	5 PCT	95 PCT
0.80	N	19.64	1.09	17.84	21.43	5.15	1.17	3.22	7.07	11.89	1.23	9.88	13.91	0.73	4.00	5 PCT	95 PCT
0.90	E	19.13	1.02	17.52	20.86	5.41	0.68	4.30	6.53	11.87	1.22	9.87	13.86	0.52	4.52	5 PCT	95 PCT
1.00	A	19.39	0.98	17.78	20.99	5.46	0.73	4.27	6.65	11.83	1.23	9.82	13.85	0.21	4.73	5 PCT	95 PCT
0.0	F	19.39	0.98	17.78	20.99	5.46	0.73	4.27	6.65	11.83	1.23	9.82	13.85	0.0	0.0	5 PCT	95 PCT
0.10	R	19.21	1.07	17.45	20.96	5.42	0.83	4.06	6.78	11.31	1.28	9.72	13.91	0.19	0.19	5 PCT	95 PCT
0.20	E	19.11	1.15	17.22	21.00	5.40	0.70	4.25	6.56	11.84	1.17	9.92	13.76	0.10	0.29	5 PCT	95 PCT
0.30	T	19.15	1.19	17.21	21.10	5.47	0.54	4.59	6.35	11.77	1.18	9.83	13.70	0.11	0.40	5 PCT	95 PCT
0.40	A	19.18	1.04	17.48	20.88	5.52	0.56	4.60	6.45	11.69	1.19	9.73	13.65	0.09	0.49	5 PCT	95 PCT
0.50	R	19.04	0.84	17.66	20.42	5.60	0.59	4.63	6.57	11.39	1.35	9.08	13.52	0.43	0.92	5 PCT	95 PCT
0.60	E	19.03	0.88	17.59	20.48	5.46	0.59	4.50	6.43	11.33	1.43	8.99	13.67	0.14	1.06	5 PCT	95 PCT
0.70	T	19.08	0.89	17.61	20.54	5.36	0.61	4.36	6.36	11.33	1.51	8.86	13.80	0.11	1.17	5 PCT	95 PCT
0.80	A	18.98	0.93	17.46	20.49	5.38	0.63	4.35	6.42	11.38	1.42	9.05	13.71	0.11	1.29	5 PCT	95 PCT
0.90	R	18.97	0.96	17.40	20.54	5.50	0.70	4.35	6.64	11.36	1.33	9.17	13.54	0.12	1.40	5 PCT	95 PCT
1.00	E	19.07	1.06	17.34	20.81	5.48	0.70	4.33	6.63	11.30	1.33	9.12	13.47	0.12	1.52	5 PCT	95 PCT

LANDMARK - LT SHOULDER CENTER (23)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T SIZE, N 7	-4.09	1.02	-5.77	2.41	7.57	0.73	6.37	8.78	19.12	0.67	18.01	20.23	0.0	0.0	5 PCT	95 PCT
0.10	F	-4.39	1.11	-6.22	2.57	7.54	1.18	5.60	9.47	18.97	0.81	17.65	20.30	0.34	0.34	5 PCT	95 PCT
0.20	R	-4.70	0.95	-6.25	3.15	7.43	1.02	5.77	9.10	19.18	0.95	17.62	20.74	0.39	0.73	5 PCT	95 PCT
0.30	E	-5.15	1.04	-6.85	3.45	7.34	1.01	5.68	9.01	19.35	0.99	18.23	21.48	0.81	1.54	5 PCT	95 PCT
0.40	T	-5.50	1.43	-7.85	3.16	7.16	1.35	4.95	9.37	20.84	1.08	19.07	22.60	1.06	2.60	5 PCT	95 PCT
0.50	A	-5.66	1.09	-7.46	3.87	7.19	1.23	5.17	9.21	21.42	1.25	19.38	23.47	0.61	3.21	5 PCT	95 PCT
0.60	R	-5.98	1.14	-7.84	4.09	6.87	0.96	5.30	8.44	22.10	1.42	19.76	24.42	0.81	4.02	5 PCT	95 PCT
0.70	E	-6.18	1.24	-8.21	4.15	6.55	0.81	5.22	7.87	22.46	1.57	20.53	24.55	0.53	4.55	5 PCT	95 PCT
0.80	T	-6.22	1.21	-8.20	4.24	6.47	0.95	4.92	8.03	22.30	1.86	19.84	25.95	0.44	4.99	5 PCT	95 PCT
0.90	A	-6.21	1.09	-8.01	4.42	6.46	1.03	4.77	8.15	23.29	2.07	19.89	26.68	0.39	5.38	5 PCT	95 PCT
1.00	R	-6.19	0.95	-7.74	4.63	6.36	0.99	4.74	7.98	23.11	1.84	20.09	26.12	0.21	5.59	5 PCT	95 PCT
0.0	E	-6.19	0.95	-7.74	4.63	6.36	0.99	4.74	7.98	23.11	1.84	20.09	26.12	0.0	0.0	5 PCT	95 PCT
0.10	T	-6.12	0.91	-7.61	4.62	6.70	0.99	5.07	8.32	22.79	1.67	20.53	24.39	0.47	0.47	5 PCT	95 PCT
0.20	R	-6.07	1.07	-7.83	4.32	7.00	1.07	5.24	8.75	22.24	1.33	20.03	23.26	0.65	1.12	5 PCT	95 PCT
0.30	E	-5.90	1.03	-7.54	4.25	7.20	1.02	5.52	8.86	21.43	1.11	19.64	23.06	0.81	1.93	5 PCT	95 PCT
0.40	T	-5.61	0.84	-6.98	4.24	7.33	0.81	6.01	8.65	20.73	1.02	19.06	22.40	0.79	2.71	5 PCT	95 PCT
0.50	A	-5.23	0.80	-6.55	3.91	7.34	0.48	6.55	8.13	19.94	0.91	18.45	21.43	0.88	3.59	5 PCT	95 PCT
0.60	R	-4.78	0.87	-6.20	3.35	7.34	0.72	6.17	8.52	19.74	0.84	18.35	21.69	0.50	4.09	5 PCT	95 PCT
0.70	E	-4.32	1.06	-6.06	2.58	7.37	0.81	6.04	8.71	19.48	0.84	18.11	20.85	0.52	4.61	5 PCT	95 PCT
0.80	T	-4.17	1.33	-6.35	1.99	7.42	0.82	6.08	8.77	19.34	0.78	18.06	20.62	0.21	4.82	5 PCT	95 PCT
0.90	A	-4.14	1.35	-6.15	1.94	7.49	0.72	6.31	8.68	19.26	0.70	18.11	20.40	0.11	4.93	5 PCT	95 PCT
1.00	R	-4.09	1.02	-5.17	2.41	7.57	0.73	6.37	8.73	19.12	0.67	18.01	20.23	0.17	5.10	5 PCT	95 PCT

LANDMARK - LT ELBOW CENTER (25)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T SIZE, N 7	3.22	0.75	1.98	4.46	11.91	0.81	10.58	13.23	13.98	1.42	10.74	15.41	0.0	0.0	0.0	0.0
U	0.10	2.61	0.88	1.16	4.05	12.24	0.52	11.40	13.09	13.65	2.10	10.20	17.10	0.90	0.90	0.90	0.90
F	0.20	2.28	0.66	1.20	3.37	12.71	0.75	11.48	13.93	15.21	2.80	10.71	19.90	1.75	2.65	2.19	4.84
O	0.30	1.89	0.77	0.63	3.15	13.16	0.99	11.69	14.63	17.64	3.36	11.91	22.91	2.19	4.84	3.69	8.54
R	0.40	1.38	1.46	-1.01	3.77	13.43	1.03	11.73	15.13	21.06	3.52	15.29	26.83	3.69	8.54	3.69	8.54
W	0.50	0.66	1.52	-1.84	3.16	13.31	1.05	11.59	15.03	24.08	1.98	20.84	27.32	3.11	11.64	3.11	11.64
A	0.60	-0.69	1.37	-2.94	1.55	12.68	0.98	11.31	14.25	20.78	1.38	24.52	29.04	3.09	14.73	3.09	14.73
R	0.70	1.91	1.09	-3.69	-0.12	11.99	1.02	10.32	13.65	28.53	1.15	26.64	30.41	2.24	16.97	2.24	16.97
O	0.80	-2.64	1.11	-4.46	-0.82	11.57	1.12	9.74	13.41	29.50	1.08	27.73	31.27	1.29	18.25	1.29	18.25
O	0.90	-2.83	1.17	-4.75	-0.91	11.28	1.14	9.42	13.14	30.05	1.03	28.36	31.74	0.65	18.90	0.65	18.90
1.00	7	-2.81	1.01	-6.47	-1.16	11.05	1.24	9.02	13.08	30.10	0.84	28.72	31.49	0.24	19.14	0.24	19.14
0.0	7	-2.81	1.01	-4.47	-1.16	11.05	1.24	9.02	13.08	30.10	0.84	28.72	31.49	0.0	0.0	0.0	0.0
0.10	7	-1.58	0.97	-3.17	0.01	12.10	0.83	10.73	13.46	28.24	0.73	27.00	29.39	2.50	2.50	2.50	2.50
0.20	7	-0.29	1.01	-1.95	1.37	12.80	0.67	11.71	13.89	25.88	0.65	24.81	26.94	2.75	5.25	2.75	5.25
R	0.30	0.96	1.10	-0.84	1.37	13.26	0.76	12.01	14.52	22.97	0.64	21.92	24.01	3.20	8.45	3.20	8.45
E	0.40	1.60	1.10	-0.20	3.41	13.32	1.00	11.69	14.96	19.76	1.01	18.11	21.42	3.27	11.72	3.27	11.72
T	0.50	1.88	1.13	0.03	3.73	13.15	0.98	11.55	14.75	16.72	1.61	14.08	19.37	3.05	14.77	3.05	14.77
W	0.60	2.41	1.15	0.53	4.29	12.90	1.13	11.05	14.75	15.56	1.69	12.29	17.82	1.77	16.54	1.77	16.54
R	0.70	2.68	1.10	0.88	4.49	12.43	1.06	10.68	14.05	14.05	1.71	11.25	16.85	1.14	17.69	1.14	17.69
N	0.80	2.80	1.02	1.13	4.47	12.30	0.87	10.87	13.73	13.57	1.70	10.88	16.46	0.42	18.11	0.42	18.11
O	0.90	2.98	0.91	1.49	4.47	12.20	0.84	10.83	13.58	13.43	1.63	10.76	16.10	0.31	18.42	0.31	18.42
1.00	7	3.22	0.75	1.98	4.46	11.91	0.81	10.58	13.23	13.08	1.42	10.74	15.41	0.52	18.94	0.52	18.94

LANDMARK - LT WRIST CENTER (27)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T SIZE, N 4	13.39	0.80	12.09	14.70	10.30	0.54	9.42	11.19	12.77	0.68	11.65	13.89	0.0	0.0	0.0	0.0	
0.10	4	11.46	0.40	11.14	11.79	10.99	0.65	9.93	12.06	15.81	3.91	9.40	22.23	3.67	3.67	3.67	3.67	
F	0.20	9.45	1.21	7.46	11.43	10.57	0.50	9.75	11.43	21.07	4.70	13.35	28.78	5.64	9.31	9.31	9.31	
O	0.30	6	7.19	4.70	4.39	9.98	10.09	0.57	9.15	11.02	24.52	2.62	20.22	28.81	4.15	13.47	4.15	13.47
R	0.40	7	3.68	2.11	0.23	7.14	10.19	0.70	9.04	11.34	29.94	3.37	24.39	35.43	6.44	19.90	6.44	19.90
W	0.50	7	0.98	2.45	-3.03	5.00	10.20	0.79	8.89	11.50	34.33	4.36	27.15	41.45	5.15	25.05	5.15	25.05
A	0.60	6	-1.45	2.74	3.05	10.22	0.82	8.87	11.56	37.59	3.03	32.72	42.66	4.17	29.23	4.17	29.23	
R	0.70	6	-1.61	0.98	-3.21	-0.01	10.15	0.77	8.88	11.42	38.30	1.05	36.57	40.03	0.63	29.86	0.63	29.86
D	0.80	6	-1.88	1.09	-3.66	-0.10	10.16	0.83	8.81	11.52	39.16	0.83	37.81	40.52	0.90	30.76	0.90	30.76
O	0.90	6	-1.75	1.08	-3.52	0.03	10.17	0.69	9.04	11.31	39.64	0.69	38.48	40.75	0.47	31.23	0.47	31.23
1.00	6	-1.45	0.87	-2.88	-0.02	10.25	0.51	9.42	11.08	39.73	0.67	38.63	40.84	0.33	31.56	0.33	31.56	
0.0	6	-1.65	0.87	-2.88	-0.02	10.25	0.51	9.42	11.08	39.73	0.67	38.63	40.84	0.0	0.0	0.0	0.0	
O	0.20	7	1.74	2.34	-2.10	5.58	9.43	0.65	8.93	11.07	37.33	1.53	34.82	39.85	2.71	2.71	2.71	2.71
R	0.30	6	2.97	2.06	-0.40	6.35	9.19	0.69	8.06	10.32	31.20	3.40	26.66	38.41	3.87	6.58	3.87	6.58
E	0.40	5	5.17	2.02	1.86	8.49	9.17	0.51	8.34	10.00	26.94	1.37	28.96	33.44	3.11	9.69	3.11	9.69
T	0.50	5	7.39	1.59	4.79	9.99	9.09	0.35	8.52	9.66	22.69	1.34	20.49	24.89	4.79	19.27	4.79	19.27
U	0.60	4	9.27	1.22	7.27	1.17	9.73	0.39	9.08	10.37	19.12	1.46	16.72	21.52	4.09	23.36	4.09	23.36
R	0.70	4	10.88	0.91	9.39	12.38	10.23	0.74	9.02	11.44	16.39	0.91	14.89	17.98	3.21	26.57	3.21	26.57
N	0.80	4	11.74	1.04	1.04	1.30	10.59	0.61	9.59	11.60	14.52	0.14	14.30	14.75	2.09	28.66	2.09	28.66
O	0.90	4	12.60	1.02	10.93	1.42	10.61	0.53	9.74	11.49	13.13	0.82	11.80	14.47	1.63	30.29	1.63	30.29
1.00	4	13.39	0.80	12.09	14.70	10.30	0.54	9.42	11.19	12.77	0.68	11.65	13.89	0.92	31.22	0.92	31.22	

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +18.0, +10.0, +12.4 TO OVER-HEAD CONTROLLER AT 0.0, +10.0, +45.0 AND RETURNS. RIGHT HAND REMAINS AT SIDE-ARM CONTROLLER AT +13.0, -13.0, +4.8.

MOTION NUMBER - 22230
BACK ANGLE - 30

SUB-MOVEMENT	TIME DATA			RANGE
	MEAN	STD DEV		
LEFT FWD	0.80	0.14	0.60 TO 0.90	SECS.
LEFT REV	0.71	0.11	0.60 TO 0.90	SECS.

LANDMARK - NASION

(1)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE				
		T	SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	7	-0.08	1.10	-1.88	1.73	0.48	1.02	-1.19	2.15	27.54	1.78	24.69	30.52	0.0	0.0	
0.10	7	-3.01	1.67	-5.75	-0.27	0.87	0.42	-0.19	1.55	29.51	1.36	27.29	31.73	3.52	3.52	
F	0.20	-4.19	1.83	-7.19	-1.19	0.84	0.41	0.17	1.50	30.08	1.24	28.04	32.12	1.31	4.83	
R	0.30	-4.50	1.53	-7.02	-1.99	0.74	0.46	-0.01	1.48	30.12	1.27	28.04	32.19	0.33	5.16	
R	0.40	-4.73	1.18	-6.67	-2.79	0.66	0.45	-0.07	1.39	30.24	1.20	28.25	32.18	0.26	5.42	
W	0.50	-5.05	1.10	-6.86	-3.23	0.66	0.46	-0.09	1.40	30.30	1.31	28.16	32.45	0.33	5.75	
A	0.60	-5.16	0.97	-6.75	-3.58	0.76	0.41	0.09	1.43	30.34	1.34	28.14	32.55	0.16	5.91	
R	0.70	-5.20	1.05	-6.93	-3.47	0.74	0.58	-0.22	1.69	30.28	1.38	28.02	32.54	0.08	5.98	
D	0.80	-5.17	1.21	-7.16	-3.18	0.73	0.68	-0.38	1.84	30.24	1.37	27.97	32.45	0.08	6.06	
O	0.90	-5.01	1.35	-7.22	-2.80	0.75	0.58	-0.20	1.71	30.40	1.43	27.76	32.44	0.20	6.26	
1.00	7	-4.34	1.61	-6.98	-1.70	0.49	0.78	-0.79	1.78	29.75	1.68	26.99	32.50	0.80	7.06	
0.0	7	-4.34	1.61	-6.98	-1.70	0.49	0.78	-0.79	1.78	29.75	1.68	26.99	32.50	0.0	0.0	
0.10	7	-2.36	0.65	-3.43	-1.30	0.49	0.70	-0.65	1.64	28.53	1.80	25.59	31.48	2.32	2.32	
O	0.20	-1.42	0.66	-2.49	-0.36	0.26	1.05	-1.47	1.99	28.02	1.82	25.04	31.01	1.10	3.42	
R	0.30	-1.07	0.87	-2.50	0.36	0.10	1.29	-2.01	2.22	27.97	1.73	25.13	30.81	0.38	3.80	
E	0.40	-1.10	0.78	-2.38	0.17	0.06	1.22	-1.93	2.06	27.89	1.59	25.28	30.50	0.09	3.89	
T	0.50	-0.97	0.86	-2.39	0.44	0.03	1.08	-1.81	1.75	27.77	1.64	25.08	30.20	4.09	4.09	
U	0.60	-0.79	0.70	-2.26	0.69	-0.01	1.11	-1.83	1.81	27.74	1.57	25.17	30.31	0.19	4.28	
R	0.70	-0.86	0.97	-2.44	0.73	0.41	1.45	-1.98	2.79	27.67	1.64	24.97	30.36	0.43	4.71	
N	0.80	-0.50	1.02	-1.85	0.85	0.31	1.18	-1.63	2.25	27.59	1.73	24.86	30.52	0.37	5.08	
O	0.90	-0.20	1.03	-1.88	1.48	0.26	1.11	-1.55	2.08	27.67	1.71	24.87	30.48	0.31	5.39	
1.00	7	-0.08	1.10	-1.88	1.73	0.48	1.02	-1.19	2.15	27.50	1.78	24.69	30.52	0.26	5.65	

LANDMARK - CERVICALE

(2)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE				
		T	SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	7	-7.38	0.61	-8.38	-6.39	-0.50	0.76	-1.75	0.75	21.69	1.06	19.95	23.43	0.0	0.0	
O	0.10	-7.57	0.76	-8.82	-6.33	-0.76	0.87	-2.18	0.66	21.54	1.25	19.49	23.58	0.36	0.36	
F	0.20	-7.89	0.79	-9.18	-6.61	-0.85	0.85	-2.24	0.54	21.44	1.22	19.41	23.43	0.35	0.71	
O	0.30	-7.94	0.80	-9.25	-6.62	-0.91	0.86	-2.32	0.53	21.33	1.17	19.41	23.25	0.12	0.83	
R	0.40	-7.96	0.74	-9.16	-6.75	-1.02	0.79	-2.32	0.27	21.38	1.18	19.44	23.32	0.12	0.95	
W	0.50	-7.94	0.83	-9.30	-6.57	-1.14	0.75	-2.38	0.09	21.40	1.31	19.25	23.55	0.12	1.07	
A	0.60	-8.00	0.79	-9.30	-6.70	-0.97	1.06	-2.71	0.76	21.50	1.26	19.43	23.57	0.20	1.28	
R	0.70	-8.11	0.75	-9.34	-6.88	-0.93	1.22	-2.93	1.08	21.50	1.25	19.51	23.61	0.13	1.41	
D	0.80	-8.09	0.70	-9.23	-6.94	-1.01	1.16	-2.91	0.89	21.57	1.23	19.56	23.58	0.09	1.50	
O	0.90	-7.99	0.79	-9.28	-6.71	-1.08	1.23	-3.10	0.95	21.54	1.10	19.74	23.35	0.12	1.62	
1.00	7	-7.92	0.92	-9.43	-6.42	-1.14	1.26	-3.22	0.93	21.53	1.11	19.70	23.35	0.10	1.72	
0.0	7	-7.92	0.92	-9.43	-6.42	-1.14	1.26	-3.22	0.93	21.53	1.11	19.70	23.35	0.0	0.0	
O	0.10	-7.91	0.58	-8.85	-6.96	-1.24	0.96	-2.82	0.34	21.48	1.15	19.60	23.36	0.11	0.11	
O	0.20	-7.84	0.62	-8.86	-6.83	-1.24	0.82	-2.53	0.11	21.55	1.12	19.72	23.39	0.10	0.21	
R	0.30	-7.81	0.76	-9.07	-6.56	-1.09	0.84	-2.47	0.29	21.66	1.16	19.79	23.58	0.20	0.41	
E	0.40	-7.88	0.70	-9.03	-6.72	-0.96	0.77	-2.22	0.30	21.62	1.20	19.64	23.59	0.16	0.56	
T	0.50	-7.76	0.70	-8.90	-6.62	-1.12	0.75	-2.34	0.11	21.61	1.15	19.72	23.49	0.19	0.76	
U	0.60	-7.65	0.67	-8.75	-6.55	-1.04	0.76	-2.28	0.20	21.66	1.15	19.76	23.55	0.14	0.90	
R	0.70	-7.53	0.63	-8.57	-6.50	-0.86	0.76	-2.11	0.39	21.60	1.18	19.72	23.59	0.21	1.11	
N	0.80	-7.51	0.58	-8.46	-6.56	-0.70	0.79	-2.00	0.59	21.58	1.18	19.64	23.52	0.18	1.29	
O	0.90	-7.43	0.54	-8.32	-6.54	-0.60	0.77	-1.87	0.67	21.58	1.18	19.64	23.52	0.13	1.42	
1.CD	7	-7.38	0.61	-8.38	-6.39	-0.50	0.76	-1.75	0.75	21.69	1.06	19.95	23.43	0.15	1.57	

LANDMARK - SUPRASENTALE (3)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					DISTANCE MOVED							
		T	SIZE,N	MEAN	SE	95 PCT	MEAN	SE	95 PCT	MEAN	SE	95 PCT	MEAN	SE	95 PCT	MEAN	SE	95 PCT	MEAN	SE	95 PCT	INCR	CUM	
0.0	F	-2.69	1.47	-5.09	-0.28	-0.06	0.71	-1.23	1.11	20.80	0.64	19.75	21.85	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	F	-3.02	1.09	-4.81	-1.23	-0.10	0.80	-1.41	1.22	20.91	0.76	19.67	22.15	0.76	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	
0.20	F	-3.36	1.10	-5.16	-1.55	-0.20	0.94	-1.75	1.35	20.93	0.84	19.56	22.31	0.84	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	
0.30	F	-3.43	1.00	-5.07	-1.79	-0.11	0.75	-1.34	1.11	20.95	0.79	19.66	22.24	0.79	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	
R	U	-1.07	-5.00	-1.75	-1.79	-0.11	0.75	-1.34	1.11	20.95	0.79	19.66	22.24	0.79	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	
R	U	-0.40	1.03	-5.43	-2.03	-0.38	0.69	-1.51	0.75	21.14	0.78	19.80	22.42	0.78	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	
W	A	-3.93	1.30	-6.07	-1.79	-0.52	0.76	-1.76	0.73	21.23	0.90	19.76	22.71	0.90	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	
A	A	-3.53	1.68	-6.28	-0.78	-0.68	0.98	-2.28	0.92	21.32	0.99	19.69	22.95	0.99	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	
R	T	-3.22	2.07	-6.61	0.16	-0.88	1.83	-3.88	2.13	21.39	1.08	19.62	23.16	1.08	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	
D	O	-3.87	1.37	-6.12	-1.62	-0.45	0.82	-1.79	0.89	21.39	1.02	19.72	23.06	1.02	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	
O	N	-3.92	1.40	-6.21	-1.62	-0.57	0.81	-1.90	0.76	21.49	1.01	19.83	23.15	1.01	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	
O	Q	-3.82	1.37	-6.07	-1.57	-0.60	0.75	-1.84	0.64	21.43	0.96	19.86	22.99	0.96	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	
1.00	Q	-3.82	1.37	-6.07	-1.57	-0.60	0.75	-1.84	0.64	21.43	0.96	19.86	22.99	0.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.0	O	7	-3.82	1.37	-6.07	-1.57	-0.60	0.75	-1.84	0.64	21.43	0.96	19.86	22.99	0.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	O	7	-3.82	1.31	-5.71	-1.41	-0.33	0.74	-1.54	0.88	21.34	0.96	19.77	22.92	0.96	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	
0.20	O	7	-3.42	1.33	-5.60	-1.24	-0.28	0.76	-1.52	0.95	21.22	0.90	19.75	22.70	0.90	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	
O	R	30	7	-3.18	1.11	-5.00	-1.36	-0.26	0.66	-1.33	0.82	21.15	0.84	19.77	22.53	0.84	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
E	O	40	7	-3.11	1.14	-4.99	-1.24	-0.24	0.59	-1.32	0.62	21.13	0.77	19.86	22.39	0.77	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
T	O	50	7	-3.12	1.34	-5.32	-0.93	-0.44	0.45	-1.18	0.30	20.99	0.74	19.78	22.21	0.74	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
U	O	60	7	-2.96	1.26	-5.02	-0.89	-0.50	0.42	-1.19	0.19	20.89	0.70	19.73	22.04	0.70	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
R	O	70	7	-2.87	1.30	-5.01	-0.73	-0.51	0.60	-1.49	0.47	20.88	0.71	19.72	22.04	0.71	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
N	O	80	7	-2.74	1.31	-4.89	-0.60	-0.31	0.67	-1.41	0.79	20.83	0.73	19.63	22.03	0.73	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
O	Q	90	7	-2.63	1.32	-4.80	-0.46	-0.11	0.69	-1.25	1.03	20.80	0.70	19.66	21.94	0.70	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
1.00	Q	7	-2.69	1.47	-5.09	-0.28	-0.06	0.71	-1.23	1.11	20.81	0.64	19.75	21.85	0.64	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	

LANDMARK - LT ACRYOM (5)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					DISTANCE MOVED							
		T	SIZE,N	MEAN	SE	95 PCT	MEAN	SE	95 PCT	MEAN	SE	95 PCT	MEAN	SE	95 PCT	MEAN	SE	95 PCT	MEAN	SE	95 PCT	INCR	CUM	
0.0	F	-5.77	1.25	-7.82	-3.72	7.45	0.69	6.31	8.58	20.58	0.98	19.08	22.28	0.98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	F	-6.57	1.05	-8.29	-4.85	7.37	0.71	6.20	8.54	20.64	0.99	18.81	22.07	0.99	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	
0.20	F	-7.35	0.98	-8.65	-5.45	7.20	0.84	5.82	8.58	20.44	1.0	18.63	22.25	1.0	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	
O	P	30	6	-7.51	0.89	-8.97	-6.05	7.15	0.84	5.78	8.52	20.64	1.24	18.60	22.68	1.24	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
R	O	40	6	-7.98	1.03	-9.66	-6.29	6.99	0.88	5.54	8.43	20.55	1.31	18.75	23.05	1.31	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
W	A	-8.27	1.31	-10.42	-6.12	6.73	0.89	5.27	8.18	21.23	1.34	19.04	23.43	1.34	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	
A	O	-8.52	1.34	-10.72	-6.32	6.68	0.93	5.16	8.20	21.52	1.30	19.49	23.75	1.30	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	
R	O	70	6	-8.80	1.48	-11.02	-6.51	6.16	0.97	4.77	8.25	19.81	24.00	1.28	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	
D	O	80	6	-8.63	1.49	-11.08	-6.18	5.96	0.99	4.34	7.57	22.13	1.33	19.95	24.31	1.33	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
O	Q	90	6	-8.53	1.51	-11.00	-6.05	5.93	0.91	4.43	7.43	22.15	1.16	20.18	24.17	1.16	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
1.00	Q	6	-8.56	1.41	-10.89	-6.24	5.72	0.65	4.66	6.79	22.15	1.16	20.25	24.05	1.16	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	
0.0	O	6	-8.56	1.36	-10.87	-6.42	5.78	0.70	4.64	6.93	21.97	1.30	19.83	24.10	1.30	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	
0.10	O	6	-8.65	1.21	-9.18	-6.20	6.52	2.27	2.80	10.24	21.94	1.18	20.00	23.88	1.18	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	
0.20	O	6	-7.39	1.08	-9.16	-5.62	6.62	2.33	2.80	10.44	21.93	1.16	19.98	23.79	1.16	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	
R	O	30	6	-7.39	1.09	-9.59	-6.34	6.16	0.62	5.15	7.18	21.59	1.25	19.55	23.64	1.25	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
E	O	40	6	-7.97	0.99	-9.59	-6.34	6.16	0.62	5.15	7.18	21.59	1.25	19.55	23.64	1.25	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
T	O	50	6	-7.66	1.05	-9.37	-5.94	6.55	0.66	5.48	7.65	21.34	1.24	19.30	23.38	1.24	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
U	O	60	6	-7.07	0.95	-8.63	-5.52	6.80	0.62	5.79	7.81	21.10	1.26	19.04	23.16	1.26	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
R	O	70	6	-6.61	1.01	-8.27	-4.95	7.03	0.60	6.05	8.01	20.93	1.24	18.92	22.97	1.24	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
N	O	80	6	-6.29	1.07	-8.05	-4.54	7.30	0.53	6.10	8.51	20.81	1.17	18.89	22.73	1.17	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
O	Q	90	6	-6.32	1.17	-7.95	-4.09	7.64	0.81	6.														

LANDMARK - LT GRIP CENTER (17)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE		
0.0	T	17.09	0.58	16.13	18.04	10.13	0.56	9.20	11.05	12.76	0.20	12.44	13.08	0.0	0.0	0.0	
0.10	F	15.44	0.47	14.67	16.21	10.44	0.48	9.65	11.24	15.89	1.35	13.68	18.10	3.55	3.55	3.55	
0.20	R	12.31	1.29	10.19	14.43	9.88	0.82	8.54	11.23	20.88	2.17	17.32	24.44	5.92	5.92	5.92	
0.30	Q	7.88	1.58	5.29	10.47	9.50	1.22	7.50	11.50	26.93	1.97	23.69	30.16	7.51	7.51	7.51	
0.40	R	4.00	3.81	0.82	6.81	9.40	1.22	7.40	11.40	32.04	2.48	27.97	36.10	6.53	6.53	6.53	
0.50	W	0.73	1.46	-1.67	3.14	9.56	1.20	7.60	11.52	35.17	1.34	33.57	37.96	4.84	4.84	4.84	
0.60	A	-2.56	3.36	-8.08	2.96	9.78	1.12	7.94	11.63	41.19	1.44	39.04	48.47	6.35	6.35	6.35	
0.70	R	-2.19	1.41	-4.50	8.11	9.79	0.95	8.23	11.36	41.56	1.54	44.08	44.08	0.52	0.52	0.52	
0.80	D	-2.19	1.13	-4.05	-0.34	9.75	1.02	8.08	11.43	42.37	0.64	41.32	43.41	0.81	0.81	0.81	
0.90	N	-1.70	1.20	-3.67	0.28	9.88	0.88	8.43	11.33	42.99	0.41	42.31	43.67	0.81	0.81	0.81	
1.00	Q	-1.10	1.29	-3.23	1.02	9.77	0.95	8.21	11.33	43.08	0.37	42.48	43.68	0.61	0.61	0.61	
0.0	E	-1.10	1.29	-3.23	1.02	9.77	0.95	8.21	11.33	43.08	0.37	42.48	43.68	0.0	0.0	0.0	
0.10	T	-1.07	1.27	-3.14	1.01	9.43	0.96	7.86	11.00	40.52	2.97	35.65	45.40	2.58	2.58	2.58	
0.20	R	-0.36	1.87	-3.42	2.70	8.57	1.52	6.08	11.06	37.17	5.38	28.35	45.99	3.53	6.11	3.53	
0.30	Q	7.06	1.06	1.69	-1.71	3.83	8.48	1.07	6.73	10.23	34.44	3.00	29.49	39.34	3.10	9.21	3.10
0.40	R	4.01	2.16	0.47	2.16	7.56	8.01	1.08	6.25	9.77	30.31	3.22	35.59	5.08	1.429	1.429	
0.50	E	7.35	2.17	3.80	10.91	7.59	1.19	5.65	9.54	26.12	2.57	21.91	30.33	5.37	1.966	5.37	
0.60	U	11.25	2.46	7.21	15.29	8.05	1.39	5.77	10.33	21.16	3.07	16.12	26.19	6.33	25.99	6.33	
0.70	R	14.43	2.52	1.03	1.31	18.56	8.89	1.40	6.59	11.19	16.85	3.31	11.43	22.28	5.42	31.41	5.42
0.80	N	15.80	1.55	13.26	18.34	9.48	0.94	7.77	11.19	14.53	2.73	10.11	19.05	2.72	31.13	2.72	
0.90	Q	16.43	0.91	14.93	17.93	9.82	0.55	8.91	10.72	13.74	0.72	12.56	14.93	1.10	35.23	1.10	
1.00	W	17.09	0.58	16.13	18.04	10.13	0.56	9.20	11.05	12.76	0.20	12.44	13.08	1.22	36.44	1.22	

LANDMARK - LT TROCHANTER (19)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE				
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	CUM
0.0	T	3.37	0.49	2.56	4.18	6.82	0.69	5.69	7.96	3.54	0.45	2.80	4.29	0.0	0.0	0.0
0.10	F	3.00	0.50	2.18	3.64	6.92	0.48	6.14	7.70	3.60	0.44	2.88	4.32	0.39	0.39	0.39
0.20	R	2.94	0.43	2.24	4.67	6.77	0.51	5.93	7.61	3.64	0.46	2.89	4.40	0.17	0.56	0.17
0.30	Q	2.98	0.62	1.67	3.99	6.84	0.48	6.00	7.62	3.62	0.50	2.80	4.45	0.09	0.65	0.09
0.40	R	2.96	0.51	2.13	3.79	6.74	0.60	5.76	7.72	3.64	0.43	2.93	4.35	0.11	0.75	0.11
0.50	E	3.01	0.53	2.15	3.81	6.71	0.75	5.48	7.94	3.64	0.44	2.92	4.36	0.06	0.81	0.06
0.60	A	3.13	0.55	2.23	4.03	6.81	0.65	5.74	7.89	3.68	0.45	2.95	4.41	0.16	0.97	0.16
0.70	R	3.10	0.55	2.20	4.00	6.80	0.55	5.90	7.70	3.58	0.44	2.96	4.39	0.03	1.01	0.03
0.80	D	3.06	0.56	2.23	4.03	6.75	0.63	5.72	7.78	3.67	0.44	2.95	4.38	0.06	1.07	0.06
0.90	Q	3.13	0.55	2.23	4.03	6.77	0.51	5.93	7.62	3.70	0.47	2.93	4.46	0.08	1.15	0.08
1.00	E	3.15	0.73	1.95	4.34	6.85	0.58	5.91	7.80	3.63	0.49	2.82	4.44	0.10	1.25	0.10
0.0	T	3.15	0.73	1.95	4.34	6.85	0.58	5.91	7.80	3.63	0.49	2.82	4.44	0.0	0.0	0.0
0.10	F	3.20	0.56	2.28	4.11	7.01	0.57	6.07	7.95	3.58	0.49	2.77	4.38	0.18	0.18	0.18
0.20	R	3.18	0.40	2.52	3.84	6.93	0.61	5.94	7.93	3.54	0.48	2.76	4.32	0.09	0.26	0.09
0.30	Q	3.21	0.38	2.58	3.83	6.88	0.68	5.76	8.00	3.57	0.41	2.90	4.25	0.07	0.33	0.07
0.40	R	3.17	0.39	2.52	3.81	6.86	0.68	5.75	7.97	3.59	0.42	2.90	4.28	0.05	0.38	0.05
0.50	E	3.13	0.26	2.71	3.55	6.73	0.66	5.70	7.86	3.60	0.45	2.87	4.33	0.09	0.47	0.09
0.60	U	3.18	0.20	2.85	3.51	6.77	0.60	5.79	7.76	3.59	0.42	2.91	4.28	0.05	0.52	0.05
0.70	R	3.20	0.23	2.81	3.58	6.82	0.54	5.94	7.70	3.59	0.44	2.88	4.31	0.05	0.57	0.05
0.80	N	3.21	0.18	2.92	3.51	6.82	0.63	5.78	7.85	3.55	0.48	2.76	4.34	0.05	0.62	0.05
0.90	Q	3.29	0.20	2.96	3.63	6.82	0.66	5.74	7.91	3.54	0.45	2.80	4.28	0.08	0.70	0.08
1.00	W	3.37	0.49	2.56	4.18	6.48	0.69	5.69	7.96	3.54	0.45	2.87	4.29	0.08	0.78	0.08

LANDMARK - LT KNEE TOP

(21)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE								
		T	SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	A	19.53	0.75	18.30	20.77	5.45	0.33	4.91	5.99	11.46	1.58	8.86	14.05	0.0	0.0	1.58	8.86	14.05	0.0	
0.10	A	18.99	0.80	17.69	20.30	5.68	0.54	4.80	6.57	11.49	1.67	8.76	14.22	0.59	0.59	1.67	8.76	14.22	0.59	
F	0.20	19.08	0.59	18.12	20.05	5.97	0.62	4.95	6.98	11.54	1.73	8.70	14.38	0.31	0.31	1.73	8.70	14.38	0.31	
D	0.30	19.03	0.82	17.68	20.38	5.95	0.63	4.91	6.99	11.53	1.73	8.70	14.37	0.06	0.06	1.73	8.70	14.37	0.06	
R	0.40	18.96	1.00	17.32	20.61	5.76	0.63	4.72	6.81	11.55	1.62	8.89	14.22	0.20	0.20	1.62	8.89	14.22	0.20	
W	0.50	19.13	1.03	17.44	20.82	5.78	0.66	4.70	6.87	11.55	1.58	8.96	14.14	1.15	1.15	1.58	8.96	14.14	1.15	
A	0.60	19.11	1.01	17.46	20.77	5.86	0.59	4.89	6.83	11.73	1.43	9.38	14.08	0.17	0.17	1.43	9.38	14.08	0.17	
R	0.70	4	18.99	1.07	17.24	20.75	5.82	0.66	4.74	6.90	11.85	1.42	9.53	14.18	0.18	0.18	1.42	9.53	14.18	0.18
D	0.80	4	19.20	1.08	17.43	20.97	5.77	0.82	4.44	7.11	11.48	1.74	8.62	14.33	0.43	0.43	1.74	8.62	14.33	0.43
O	0.90	3	19.46	1.04	17.76	21.16	5.61	0.87	4.18	7.04	11.96	1.66	9.24	14.68	0.57	0.57	1.66	9.24	14.68	0.57
1.00	3	19.54	0.86	18.13	20.95	5.64	0.82	4.29	6.99	11.87	1.73	9.02	14.72	0.12	0.12	1.73	9.02	14.72	0.12	
0.0	0	3	19.54	0.86	18.13	20.95	5.64	0.82	4.29	6.99	11.87	1.73	9.02	14.72	0.0	0.0	1.73	9.02	14.72	0.0
0.10	0	3	19.40	0.82	18.05	20.75	5.52	0.85	4.13	6.91	11.88	1.83	8.68	14.87	0.19	0.19	1.83	8.68	14.87	0.19
O	0.20	4	19.24	0.73	18.04	20.44	5.53	0.69	4.39	6.67	11.46	1.73	8.62	14.30	0.45	0.45	1.73	8.62	14.30	0.45
R	0.30	4	19.35	0.74	18.14	20.56	5.52	0.72	4.34	6.71	11.52	1.68	8.77	14.27	0.13	0.13	1.68	8.77	14.27	0.13
E	0.40	4	19.32	0.82	17.99	20.66	5.49	0.65	4.43	6.55	11.52	1.74	8.67	14.38	0.04	0.04	1.74	8.67	14.38	0.04
T	0.50	4	19.29	0.83	17.92	20.65	5.43	0.58	4.47	6.39	11.50	1.71	8.71	14.30	0.08	0.08	1.71	8.71	14.30	0.08
U	0.60	4	18.85	0.62	17.83	19.86	5.87	0.85	4.48	7.25	11.25	1.53	8.73	13.77	0.67	0.67	1.53	8.73	13.77	0.67
R	0.70	4	17.18	2.93	10.73	23.63	7.50	3.98	0.98	4.02	10.38	2.19	6.79	13.97	2.49	2.49	2.19	6.79	13.97	2.49
N	0.80	4	18.50	1.24	16.46	20.53	6.48	1.98	3.24	9.73	10.95	1.61	8.31	13.58	1.76	1.76	1.61	8.31	13.58	1.76
O	0.90	4	19.56	0.99	17.93	21.18	5.60	0.42	4.91	6.30	11.38	1.61	8.74	14.02	1.44	1.44	1.61	8.74	14.02	1.44
1.00	3	19.53	0.75	18.30	20.77	5.45	0.33	4.91	5.99	11.46	1.58	8.86	14.05	0.17	0.17	1.58	8.86	14.05	0.17	

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TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					MOVED			
		T	SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	A	-3.99	1.29	-6.11	-1.86	7.57	0.94	9.11	18.93	0.93	17.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
F	0.10	7	-4.47	1.00	-6.11	-2.83	7.91	1.04	6.20	9.62	18.64	0.81	17.31	19.96	0.66	0.66	1.31	19.96	0.66	0.66
R	0.20	7	-4.97	0.89	-6.43	-3.50	7.88	1.08	6.11	9.65	18.85	0.96	17.27	20.42	0.54	0.54	1.20	20.42	0.54	0.54
O	0.30	7	-5.20	1.02	-6.88	-3.52	8.05	1.18	6.12	9.98	19.39	1.05	17.66	21.11	0.61	0.61	1.81	21.11	0.61	0.61
R	0.40	7	-5.37	0.90	-6.84	-3.90	7.97	1.24	5.94	10.00	20.11	1.02	18.43	21.79	0.75	0.75	2.55	21.79	0.75	0.75
W	0.50	7	-5.68	1.10	-7.47	-7.65	1.22	1.08	5.65	9.65	20.83	1.07	19.07	22.59	0.84	0.84	3.40	19.07	22.59	0.84
A	0.60	7	-6.07	1.19	-8.31	-4.42	6.88	1.07	5.12	9.95	21.95	1.04	20.24	23.67	0.89	0.89	4.29	20.24	23.67	0.89
R	0.70	7	-6.36	1.39	-8.68	-4.12	6.63	1.20	4.66	8.60	22.15	1.19	20.21	24.10	0.32	0.32	5.25	20.21	24.10	0.32
D	0.80	7	-6.49	1.28	-8.24	-4.32	6.57	1.10	4.77	8.26	22.26	1.14	20.50	24.13	0.18	0.18	5.43	20.50	24.13	0.18
O	0.90	7	-6.24	0.99	-7.86	-4.63	6.64	0.97	5.05	8.23	22.35	1.10	20.55	24.15	0.0	0.0	0.0	20.55	24.15	0.0
1.00	7	-6.24	0.7	-6.23	1.05	-7.95	6.66	0.95	5.10	8.22	21.9d	1.21	19.99	23.97	0.37	0.37	0.37	19.99	23.97	0.37
R	0.30	7	-6.07	1.15	-7.87	6.19	0.97	5.21	8.39	21.70	1.28	19.61	23.80	0.35	0.35	0.35	19.61	23.80	0.35	
E	0.40	7	-5.85	1.07	-7.67	7.09	1.07	5.34	8.85	21.39	1.37	19.14	23.63	0.47	0.47	1.19	19.14	23.63	0.47	
T	0.50	7	-5.74	0.90	-7.22	7.29	0.67	6.19	8.39	20.16	1.24	18.13	22.20	0.59	0.59	1.78	18.13	22.20	0.59	
U	0.60	7	-5.29	1.06	-7.02	-3.55	7.35	0.58	6.40	8.30	19.71	1.12	17.88	21.55	0.65	0.65	2.44	17.88	21.55	0.65
R	0.70	7	-4.79	1.15	-6.68	-2.91	7.42	0.57	6.49	8.35	19.36	1.04	17.65	21.08	0.61	0.61	3.69	17.65	21.08	0.61
N	0.80	7	-4.49	1.12	-6.33	-2.65	7.59	0.81	6.26	8.33	19.16	1.00	17.52	20.80	0.41	0.41	4.10	17.52	20.80	0.41
O	0.90	7	-4.18	1.18	-6.11	-2.25	7.64	0.93	6.11	8.18	19.04	0.97	17.44	20.63	0.34	0.34	4.43	17.44	20.63	0.34
1.00	7	-3.99	1.29	-6.11	-1.86	-1.86	0.94	6.02	6.02	6.02	6.02	0.94	6.02	20.46	0.23	0.23	4.67	20.46	0.23	0.23

LANDMARK - LT ELBOW CENTER (25)

TIME	SAMPLE SIZE, N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE							
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
T	6	3.36	1.49	0.91	5.01	11.67	1.52	9.18	14.16	13.45	1.61	10.81	16.09	0.0	0.0	0.0	0.0		
0.0	6	2.87	0.40	2.21	3.53	12.41	1.06	10.67	14.15	13.44	1.44	11.45	15.80	0.89	0.89	0.89	0.89		
0.10	6	2.33	0.23	1.95	2.71	12.76	1.00	11.12	14.15	14.86	1.96	11.64	18.08	1.56	1.56	1.56	1.56		
F	0.20	6	2.20	0.68	1.09	3.31	13.11	1.38	10.84	15.33	17.74	3.04	12.76	22.73	2.91	2.91	2.91	2.91	
O	0.30	6	2.15	1.16	0.24	4.05	13.17	1.69	10.39	15.94	21.29	1.31	15.86	26.72	3.54	3.54	3.54	3.54	
R	0.40	6	1.75	1.65	-0.96	4.45	13.14	1.31	10.99	15.29	23.95	1.66	21.24	26.67	2.69	2.69	2.69	2.69	
W	0.50	6	1.42	1.89	-3.32	2.89	12.87	1.00	11.23	14.50	26.78	1.37	24.53	29.03	3.45	3.45	3.45	3.45	
A	0.60	7	-2.13	2.95	-6.98	2.71	12.55	1.00	10.91	14.20	28.84	1.53	26.32	28.83	1.88	1.88	1.88	1.88	
R	0.70	7	-2.34	1.29	-4.45	-0.22	12.02	1.04	10.32	13.73	29.42	0.91	27.93	30.91	0.82	0.82	0.82	0.82	
D	0.80	7	-2.90	1.38	-5.17	-0.63	11.67	1.37	9.42	13.92	30.13	0.61	29.13	31.14	0.98	0.98	0.98	0.98	
N	0.90	5	-2.95	1.42	-5.28	-0.62	11.42	1.28	9.33	13.52	30.12	0.50	29.30	30.94	0.25	0.25	0.25	0.25	
1.00	5	0.0	5	-2.95	1.42	-5.28	-0.62	11.42	1.28	9.33	13.52	30.12	0.50	29.30	30.94	0.0	0.0	0.0	0.0
R	0.10	5	-1.88	1.32	-4.06	0.29	12.25	1.07	10.49	14.01	28.81	1.23	26.80	30.82	1.88	1.88	1.88	1.88	
O	0.20	6	-0.64	1.15	-2.53	1.25	12.91	0.59	11.29	14.53	26.23	3.13	21.09	24.37	2.94	2.94	2.94	2.94	
R	0.30	6	0.50	1.29	-1.62	2.61	13.79	1.07	12.03	15.55	22.71	5.42	13.82	31.61	3.80	3.80	3.80	3.80	
E	0.40	6	0.77	1.22	-1.24	2.77	13.87	0.82	12.53	15.21	20.64	3.44	15.00	26.27	2.09	2.09	2.09	2.09	
T	0.50	6	1.17	0.99	-0.46	2.80	13.71	1.27	11.63	15.79	17.63	3.53	11.84	23.42	3.04	3.04	3.04	3.04	
R	0.60	6	1.75	0.83	0.38	3.61	13.29	1.52	10.78	15.78	15.13	3.19	10.50	20.96	2.03	2.03	2.03	2.03	
R	0.70	6	2.19	0.87	0.77	3.61	13.00	1.17	11.08	14.91	14.47	2.73	10.00	18.94	1.37	1.37	1.37	1.37	
N	0.80	6	2.76	0.85	1.37	4.15	12.74	0.75	11.50	13.98	13.85	2.22	10.22	17.49	0.88	0.88	0.88	0.88	
W	0.90	6	3.26	1.01	1.60	4.91	12.32	0.74	11.11	13.54	13.54	1.85	10.50	16.57	0.72	0.72	0.72	0.72	
1.00	6	3.36	1.49	0.91	5.01	11.67	1.52	9.81	14.16	13.45	1.61	10.81	16.09	0.66	0.66	0.66	0.66		

LANDMARK - LT WRIST CENTER (27)

TIME	SAMPLE SIZE, N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE							
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
T	5	13.68	0.51	12.84	14.52	10.69	0.52	9.84	11.55	13.01	0.53	12.14	13.88	0.0	0.0	0.0	0.0		
0.0	5	12.34	0.58	11.39	13.29	11.05	0.36	10.47	11.64	14.77	1.34	12.57	16.97	2.24	2.24	2.24	2.24		
0.10	5	10.44	0.96	8.86	12.01	10.91	0.88	12.46	12.74	13.33	2.01	15.04	21.63	4.04	4.04	4.04	4.04		
F	0.20	5	7.17	1.44	9.54	10.67	1.26	8.61	12.74	23.97	2.04	20.62	27.33	6.52	6.52	6.52	6.52		
O	0.30	6	4.19	1.83	1.20	7.19	10.56	1.34	8.37	12.76	28.99	2.22	25.35	32.63	5.83	5.83	5.83	5.83	
R	0.40	6	2.03	1.46	-0.36	4.42	10.59	1.39	8.31	12.86	32.59	1.51	31.12	35.06	4.20	4.20	4.20	4.20	
W	0.50	6	-0.78	3.08	-5.84	4.27	10.61	1.32	8.45	12.77	37.01	3.51	31.26	42.76	5.24	5.24	5.24	5.24	
A	0.60	6	-1.33	3.32	-3.49	0.84	10.68	1.06	8.95	12.42	37.09	0.99	36.36	39.62	1.13	1.13	1.13	1.13	
R	0.70	6	-1.72	1.18	-3.66	0.22	10.61	0.81	9.28	11.94	39.16	0.86	37.75	40.57	1.23	1.23	1.23	1.23	
D	0.80	6	-1.32	0.64	-0.36	-0.27	10.59	0.73	9.45	11.79	39.75	0.82	38.41	41.09	1.15	1.15	1.15	1.15	
N	0.90	5	-1.18	0.81	-2.50	0.15	10.58	0.56	9.65	11.50	39.84	0.53	38.97	40.71	0.17	0.17	0.17	0.17	
1.00	5	0.0	5	-1.18	0.81	-2.50	0.15	10.58	0.56	9.65	11.50	39.84	0.53	38.97	40.71	0.17	0.17	0.17	0.17
R	0.20	6	0.37	0.99	-1.25	1.99	10.41	0.75	9.18	11.64	35.50	2.95	30.66	40.35	3.41	3.41	3.41	3.41	
R	0.30	7	2.39	1.88	-0.69	5.46	10.03	0.87	8.61	11.46	31.17	4.24	24.21	38.13	4.79	4.79	4.79	4.79	
E	0.40	7	4.58	2.37	0.69	8.47	9.69	1.00	8.05	11.33	26.76	5.12	18.36	35.16	4.93	4.93	4.93	4.93	
T	0.50	7	6.37	1.48	3.94	8.80	9.50	1.03	7.82	11.18	23.34	3.19	16.08	28.53	3.90	3.90	3.90	3.90	
U	0.60	6	8.42	1.41	6.10	10.74	9.44	0.71	8.29	10.60	20.26	2.19	16.66	23.85	3.68	3.68	3.68	3.68	
R	0.70	6	10.53	1.63	7.86	13.20	9.79	0.67	8.68	10.89	17.48	1.79	14.15	20.01	3.83	3.83	3.83	3.83	
N	0.80	5	12.14	1.49	9.69	14.59	10.29	0.55	9.38	11.20	15.34	1.30	13.24	17.47	2.43	2.43	2.43	2.43	
O	0.90	5	13.01	0.97	11.42	14.60	10.60	0.55	9.71	11.53	13.89	0.90	12.43	15.36	1.71	1.71	1.71	1.71	
1.00	5	13.68	0.51	12.84	14.52	10.69	0.52	9.84	11.55	13.01	0.53	12.14	13.88	1.11	1.11	1.11	1.11		

MOVEMENT: RIGHT HAND MOVES FROM STICK CONTROLLER AT +20.0, 0.0, +15.0 TO PANEL CONTROLLER AT +23.0, +10.0, +23.0 AND RETURNS. THIS MOVEMENT IS PRECEDED BY LEFT HAND MOVING FROM THROTTLE CONTROLLER AT +18.0, +10.0, +12.4 TO STICK CONTROLLER AND IS FOLLOWED BY LEFT HAND RETURNING BACK TO STICK CONTROLLER.

MOTION NUMBER - 11140
BACK ANGLE - 30

SUB-MOVEMENT	TIME DATA		
	MEAN	STD DEV	RANGE
RGHT FWD	0.77	0.14	0.60 TO 1.00 SECS.
RGHT REV	0.71	0.13	0.50 TO 0.95 SECS.

LANDMARK - NASTION

(1)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE		
T	SAMPLE SIZE, N	1.14	0.09	2.93	0.80	1.26	0.26	-1.26	2.86	27.95	1.48	25.53	30.37	0.0	0.0		
0.0	7	0.40	1.36	-0.64	2.63	0.68	1.12	-1.15	2.52	28.28	1.44	25.92	30.63	0.82	0.82		
0.10	7	0.45	1.41	-1.84	2.66	0.68	1.11	-1.17	2.52	28.37	1.38	26.10	30.63	0.44	1.26		
F	0.40	7	0.48	1.41	-1.86	2.76	1.11	-1.17	0.81	3.03	1.37	26.52	30.47	0.67	1.93		
R	0.30	7	0.50	1.41	-1.84	2.79	1.76	1.10	-0.03	3.56	28.49	1.21	26.29	30.59	0.59	2.54	
D	0.40	7	0.53	1.44	-1.97	2.97	0.97	0.76	2.35	0.94	2.44	1.31	26.27	30.46	0.44	2.96	
M	0.50	7	0.56	1.44	-1.82	2.89	0.92	1.29	2.79	0.92	2.49	28.39	1.27	26.31	30.48	0.44	3.40
A	0.60	7	0.56	1.44	-1.80	2.92	0.21	1.12	1.37	5.05	28.50	1.24	26.52	30.54	0.42	3.82	
R	0.70	7	0.54	1.67	-2.21	3.28	3.61	1.40	1.32	5.91	28.51	1.18	26.68	30.54	0.42	3.82	
D	0.80	7	0.55	1.65	-2.17	3.27	4.16	1.89	0.07	7.26	28.50	1.25	26.60	30.71	0.55	4.37	
U	0.90	7	0.51	1.77	-2.40	3.41	4.44	1.97	1.21	7.68	28.50	1.42	26.26	30.93	0.29	4.66	
I	1.00	7	0.57	1.81	-2.40	3.55	4.72	2.17	1.17	8.28	28.53	1.49	26.08	30.98	0.29	4.95	
O	C	7	0.57	1.81	-2.40	3.55	4.72	2.17	1.17	8.28	28.53	1.49	26.52	30.48	0.44	3.40	
P	0.10	7	0.77	1.56	-1.78	3.33	4.02	2.17	0.47	7.53	28.25	1.44	25.90	30.62	0.78	0.78	
R	0.20	7	0.85	1.49	-1.60	3.29	3.68	2.14	0.18	7.18	28.13	1.40	25.83	30.42	0.38	1.15	
U	0.30	7	0.81	1.42	-1.53	3.15	3.40	2.00	0.12	6.67	28.13	1.35	25.85	30.26	0.30	1.45	
E	0.40	7	0.72	1.34	-1.43	2.87	3.01	1.97	0.23	6.25	28.09	1.34	25.90	30.29	0.40	1.84	
T	0.50	7	0.81	1.35	-1.40	3.03	2.75	1.90	-0.36	5.85	28.15	1.27	26.07	30.23	0.29	2.13	
U	0.60	7	0.82	1.29	-1.30	2.94	2.29	1.73	-0.54	5.13	28.14	1.25	26.10	30.19	0.45	2.58	
R	0.70	7	0.83	1.18	-1.09	2.76	1.79	1.59	-0.82	4.45	28.11	1.25	26.06	30.17	0.50	3.09	
N	0.80	7	0.96	1.05	-0.76	2.69	1.41	1.43	-0.94	3.75	28.09	1.31	25.95	30.24	0.41	3.49	
O	0.90	7	1.13	1.06	-0.61	2.86	1.06	1.37	-1.18	3.50	28.03	1.38	25.76	30.30	0.38	3.88	
P	1.00	7	1.09	-0.64	2.93	0.80	1.26	-1.26	2.86	27.95	1.48	26.08	30.37	0.28	4.16		

LANDMARK - CERVICALE

(2)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SAMPLE SIZE, N	-5.63	1.34	-7.82	-3.43	1.52	1.53	-0.98	4.03	21.43	1.07	19.68	23.18	0.0	0.0	1.14	1.14	
0.0	7	-6.68	1.56	-9.24	-4.11	1.09	1.26	-0.97	3.16	21.38	1.03	19.70	23.06	1.22	1.22	1.08	1.08	
G	0.10	-6.64	1.51	-9.11	-4.16	1.14	1.14	-0.73	3.02	21.43	0.98	19.82	23.04	1.18	1.18	1.40	1.40	
F	0.20	-6.57	1.52	-9.07	-4.08	1.30	1.02	-0.37	2.95	21.50	0.95	19.95	23.06	0.32	0.32	1.72	1.72	
O	0.30	-6.52	1.52	-9.02	-4.02	1.60	0.84	0.22	2.99	21.57	0.95	20.01	23.12	0.32	0.32	1.72	1.72	
R	0.40	-6.44	1.47	-8.85	-4.03	1.89	0.77	0.62	2.65	21.59	1.02	19.93	23.26	0.30	0.30	2.02	2.02	
M	0.50	-6.29	1.52	-8.78	-3.81	2.14	0.95	0.58	3.69	21.79	1.02	20.12	23.46	0.35	0.35	2.37	2.37	
A	0.60	-5.96	1.45	-8.33	-3.59	2.31	1.17	0.39	4.23	21.95	1.16	20.04	23.86	0.40	0.40	2.77	2.77	
K	0.70	-5.70	1.51	-8.18	-3.22	2.69	1.49	0.24	5.14	22.42	1.00	20.48	23.75	0.49	0.49	3.26	3.26	
D	0.80	-5.72	1.72	-8.55	-2.90	2.75	1.39	0.47	5.03	22.55	1.14	19.85	24.25	0.36	0.36	3.36	3.36	
O	0.90	-5.61	1.68	-8.37	-2.85	2.87	1.60	0.25	5.48	22.56	1.26	19.99	24.14	0.16	0.16	3.52	3.52	
P	1.00	7	0.0	7	-5.61	1.68	-8.37	-2.85	2.87	1.60	0.25	5.48	22.56	1.26	19.99	24.14	0.0	0.0
O	0.10	7	-5.78	1.44	-8.14	-3.42	2.95	1.37	0.71	5.20	21.97	1.27	19.88	24.06	0.22	0.22	3.47	3.47
R	0.20	7	-5.94	1.47	-8.35	-3.52	2.89	1.31	0.75	5.03	21.76	1.31	19.63	23.93	0.25	0.25	3.47	3.47
R	0.30	7	-5.97	1.35	-8.18	-3.76	2.87	1.36	0.63	5.20	21.62	1.26	19.59	23.71	0.14	0.14	0.61	0.61
E	0.40	7	-6.37	1.13	-7.91	-4.22	2.75	1.49	0.30	5.20	21.56	1.14	19.69	23.43	0.17	0.17	0.78	0.78
T	0.50	7	-6.00	1.18	-7.94	-4.06	2.55	1.51	0.07	5.03	21.49	1.06	19.75	23.23	0.22	0.22	1.00	1.00
U	0.60	7	-5.91	1.13	-7.77	-4.05	2.21	1.48	-0.22	4.64	21.51	0.97	19.92	23.09	0.36	0.36	1.36	1.36
R	0.70	7	-5.89	1.17	-7.80	-3.98	1.92	1.46	-0.47	4.32	21.54	1.02	19.87	23.22	0.29	0.29	1.64	1.64
R	0.80	7	-5.77	1.16	-7.67	-3.86	1.78	1.61	-0.66	4.42	21.40	1.04	19.75	23.17	0.21	0.21	1.85	1.85
N	0.90	7	-5.71	1.13	-7.56	-3.86	1.52	1.77	-1.39	4.42	21.32	1.01	19.66	22.98	0.30	0.30	2.16	2.16
I	1.00	7	-5.63	1.34	-7.82	-3.43	1.52	1.52	-0.98	4.03	21.43	1.07	19.66	23.16	0.14	0.14	2.29	2.29

LANDMARK - SUPRASENTNALE (3)

TIME	SAMPLE SIZE, N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-1.63	1.36	-3.85	0.60	1.65	1.39	-0.63	3.92	20.73	1.46	18.34	23.13	0.0	0.0	0.0	0.0
0.10	7	-2.32	1.07	-4.08	-0.57	1.32	1.22	-0.67	3.32	20.97	1.04	19.25	22.67	0.80	0.80	0.80	0.80
F 0.20	7	-2.53	1.51	-5.01	-0.05	1.09	1.03	-0.59	3.32	21.04	1.07	19.38	22.77	0.31	1.12	1.12	1.12
O 0.30	7	-2.55	1.38	-4.82	-0.28	1.19	0.91	-0.29	2.69	21.07	1.03	19.38	22.77	0.12	1.24	1.24	1.24
R 0.40	7	-2.23	1.03	-3.93	-0.54	1.74	0.66	0.66	2.82	21.11	1.69	19.20	22.79	0.63	1.87	1.87	1.87
W 0.50	7	-2.10	1.04	-3.81	-0.39	2.10	0.51	1.27	2.93	21.16	1.56	19.34	22.78	0.39	2.26	2.26	2.26
A 0.60	7	-2.05	1.07	-3.81	-0.30	2.34	0.62	1.33	3.25	21.25	1.10	19.45	23.05	0.31	2.57	2.57	2.57
R 0.70	7	-1.94	1.08	-3.70	-0.17	2.55	0.73	1.34	3.75	21.46	1.22	19.46	23.46	0.32	2.89	2.89	2.89
D 0.80	7	-1.67	0.98	-3.28	-0.07	2.98	1.21	1.00	4.95	21.60	1.38	19.33	23.87	0.52	3.41	3.41	3.41
O 0.90	7	-1.64	0.93	-3.17	-0.11	3.33	1.48	0.90	5.75	21.59	1.61	18.95	24.23	0.35	3.77	3.77	3.77
1.00	7	-1.67	1.07	-3.43	0.09	3.45	1.56	0.93	6.03	21.72	1.59	19.11	24.33	0.18	3.95	3.95	3.95
0.0	7	-1.67	1.07	-3.43	0.09	3.45	1.56	0.90	6.00	21.72	1.59	19.11	24.33	0.0	0.0	0.0	0.0
0.10	7	-1.84	1.02	-3.52	-0.16	3.33	1.48	0.89	5.76	21.64	1.61	18.99	24.28	0.23	0.23	0.23	0.23
0.20	7	-1.94	1.12	-3.78	-0.10	3.34	1.30	1.20	5.47	21.55	1.39	19.27	23.82	0.13	0.36	0.36	0.36
R 0.30	7	-2.05	1.26	-4.12	0.01	3.29	1.33	1.10	5.47	21.27	1.28	19.17	23.37	0.30	0.66	0.66	0.66
E 0.40	7	-2.17	1.34	-4.37	0.03	3.19	1.36	0.95	5.42	21.39	1.37	18.84	23.34	0.24	0.90	0.90	0.90
T 0.50	7	-2.02	1.31	-4.16	0.12	2.89	1.28	0.79	4.99	20.97	1.36	18.74	23.21	0.35	1.25	1.25	1.25
U 0.60	7	-1.80	1.16	-3.70	0.10	2.46	1.28	0.36	5.56	20.85	1.41	18.53	23.17	0.54	1.75	1.75	1.75
R 0.70	7	-1.85	0.92	-3.35	-0.15	2.19	1.42	-0.13	4.52	20.80	1.47	18.38	23.21	0.28	2.03	2.03	2.03
N 0.80	7	-1.79	1.11	-3.61	0.03	1.95	1.42	-0.37	4.27	20.74	1.50	18.28	23.21	0.25	2.28	2.28	2.28
O 0.90	7	-1.74	1.20	-3.70	0.22	1.76	1.28	-0.34	3.86	20.74	1.45	18.32	23.09	0.20	2.49	2.49	2.49
1.00	7	-1.63	1.36	-3.85	0.60	1.65	1.39	-0.63	3.92	20.73	1.46	18.34	23.13	0.16	2.65	2.65	2.65

LANDMARK - RT ACRION (4)

TIME	SAMPLE SIZE, N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-3.29	0.90	-4.76	-1.81	-6.89	0.95	-8.44	-5.34	20.67	1.24	18.64	22.70	0.0	0.0	0.0	0.0
0.10	7	-4.83	0.84	-6.21	-3.44	-7.42	0.70	-8.57	-6.28	20.55	1.18	18.61	22.49	1.63	1.63	1.63	1.63
F 0.20	7	-4.77	0.90	-6.44	-3.29	-7.34	0.65	-8.41	-6.26	20.54	1.35	18.33	22.75	0.11	1.74	1.74	1.74
O 0.30	7	-4.63	0.99	-6.25	-3.01	-7.07	0.66	-8.15	-5.99	20.85	1.37	18.60	23.10	0.43	2.17	2.17	2.17
R 0.40	7	-4.32	1.10	-6.13	-2.51	-6.71	0.77	-7.97	-5.44	21.37	1.32	19.20	23.53	0.70	2.88	2.88	2.88
W 0.50	7	-3.81	1.32	-5.97	-1.64	-6.19	0.86	-7.61	-5.78	21.76	1.38	19.51	24.02	0.83	3.70	3.70	3.70
A 0.60	7	-3.16	1.49	-5.60	-0.72	-5.59	1.10	-7.39	-5.78	22.32	1.39	20.05	24.59	1.05	4.75	4.75	4.75
R 0.70	7	-2.30	1.46	-4.69	0.09	-4.93	1.41	-7.24	-6.62	22.96	1.39	20.68	25.25	1.26	6.01	6.01	6.01
D 0.80	7	-1.85	0.87	-3.28	-0.42	-4.42	1.75	-7.29	-1.55	23.31	1.01	21.66	24.96	0.77	6.77	6.77	6.77
O 0.90	7	-1.82	0.88	-3.27	-0.37	-4.19	1.56	-6.74	-1.63	23.41	0.76	22.65	24.65	0.26	7.03	7.03	7.03
1.00	7	-1.45	0.89	-2.91	0.02	-3.71	1.67	-6.45	-0.98	23.49	0.65	22.63	24.55	0.61	7.64	7.64	7.64
0.0	7	-1.45	0.89	-2.91	0.02	-3.71	1.67	-6.45	-0.98	23.49	0.65	22.43	24.55	0.0	0.0	0.0	0.0
0.10	7	-1.86	1.11	-3.67	-0.04	-3.89	1.62	-6.55	-1.23	23.27	0.82	21.93	24.62	0.50	0.50	0.50	0.50
F 0.20	7	-2.41	1.04	-4.12	-0.71	-4.29	1.54	-6.83	-1.76	22.91	0.86	21.50	24.32	0.78	1.28	1.28	1.28
O 0.30	7	-2.84	1.01	-4.50	-1.19	-4.74	1.45	-7.13	-2.36	22.52	0.87	21.09	23.95	0.73	2.04	2.04	2.04
R 0.40	7	-3.08	1.06	-4.79	-1.37	-5.30	1.48	-7.73	-2.87	22.59	0.98	20.48	23.71	0.74	2.75	2.75	2.75
T 0.50	7	-3.08	0.92	-4.58	-1.58	-5.99	1.63	-6.67	-3.31	21.50	1.16	19.70	23.50	0.85	3.60	3.60	3.60
U 0.60	7	-3.04	0.78	-4.32	-1.76	-6.26	1.19	-8.21	-4.30	21.37	1.05	19.64	23.09	0.36	3.95	3.95	3.95
R 0.70	7	-3.25	0.89	-4.71	-1.79	-6.36	1.16	-8.26	-4.45	21.47	1.21	19.18	23.16	0.31	4.62	4.62	4.62
N 0.80	7	-3.13	0.85	-4.52	-1.74	-6.66	1.26	-8.72	-4.59	21.01	1.26	18.94	23.08	0.36	4.62	4.62	4.62
O 0.90	7	-3.13	0.82	-4.47	-1.78	-6.99	1.30	-9.12	-4.86	20.84	1.25	18.76	22.87	0.39	5.01	5.01	5.01
1.00	7	-3.29	0.90	-4.76	-1.81	-6.89	0.95	-8.44	-5.34	20.67	1.24	18.64	22.70	0.24	5.25	5.25	5.25

LANDMARK - RT GRIP CENTER (16)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	18.82	0.94	17.28	20.37	-1.47	0.76	-2.71	-0.22	13.96	0.32	13.44	14.48	0.0	0.0	0.0	0.0
0.10	7	17.72	1.02	16.05	19.39	-2.24	1.06	-4.28	-0.80	14.35	1.32	12.18	16.52	1.59	1.59	1.59	1.59
F 0.20	7	17.43	1.08	15.65	19.20	-2.61	0.90	-4.08	-1.14	15.47	1.91	12.14	18.41	0.97	0.97	0.97	0.97
D 0.30	7	17.05	1.05	15.33	18.77	-2.42	1.59	-5.02	0.19	16.94	2.72	12.45	21.37	1.69	1.69	1.69	1.69
R 0.40	7	16.82	1.07	15.06	18.58	-1.12	2.43	-5.11	2.86	19.34	2.61	15.03	23.60	2.74	2.74	2.74	2.74
W 0.50	7	16.74	1.04	14.96	18.54	1.11	2.62	-3.19	5.40	21.34	2.17	18.90	25.04	3.47	3.47	3.47	3.47
A 0.60	7	17.14	1.12	15.31	18.98	4.03	2.54	-0.14	8.19	23.73	1.87	18.90	25.98	3.43	3.43	3.43	3.43
K 0.70	7	17.97	1.05	16.23	19.76	6.64	2.27	2.91	10.37	24.54	0.91	23.05	26.03	2.86	2.86	2.86	2.86
D 0.80	7	18.76	1.05	17.05	20.48	8.16	1.31	6.01	1.03	24.59	0.54	23.70	25.48	1.72	1.72	1.72	1.72
O 0.90	7	19.54	0.81	18.21	20.87	8.76	0.69	7.84	10.09	24.36	0.46	23.60	25.12	1.14	1.14	1.14	1.14
1.00	7	20.49	0.85	19.10	21.88	8.85	1.99	5.58	12.12	23.73	0.42	23.04	24.41	1.15	1.15	1.15	1.15
0.0	7	20.49	0.85	19.10	21.88	8.85	1.99	5.58	12.12	23.73	0.42	23.04	24.41	0.0	0.0	0.0	0.0
0.10	7	19.58	0.94	18.04	21.13	7.59	2.24	3.92	1.12	24.34	1.38	22.08	26.59	1.67	1.67	1.67	1.67
O 0.20	7	18.82	1.31	16.68	20.97	5.08	1.93	1.91	8.25	24.13	1.99	20.86	27.40	2.64	2.64	2.64	2.64
R 0.30	7	18.53	1.55	15.99	21.08	2.10	1.39	-0.17	4.38	22.52	2.39	18.93	26.77	3.25	3.25	3.25	3.25
E 0.40	7	18.70	1.67	15.95	21.44	-0.52	1.09	-2.31	1.27	20.54	1.75	24.26	3.52	1.07	1.07	1.07	1.07
T 0.50	7	19.36	1.57	16.48	21.63	-2.03	1.04	-3.74	0.32	17.93	1.73	15.10	20.77	3.00	3.00	3.00	3.00
U 0.60	7	19.08	1.16	17.17	20.99	-2.34	1.11	-4.16	-0.52	15.84	1.25	13.76	17.85	2.15	2.15	2.15	2.15
R 0.70	7	18.94	0.88	17.49	20.39	-2.02	0.98	-3.62	-0.42	14.71	0.68	13.59	15.83	1.15	1.15	1.15	1.15
N 0.80	7	18.84	0.89	17.37	20.30	-1.67	0.75	-2.91	-0.44	14.24	0.31	13.71	14.72	0.61	0.61	0.61	0.61
O 0.90	7	18.82	0.95	17.37	20.38	-1.59	0.63	-2.62	-0.55	14.30	0.28	13.54	14.45	0.23	0.23	0.23	0.23
1.00	7	18.82	0.94	17.28	20.37	-1.47	0.76	-2.71	-0.22	13.36	0.32	13.44	14.48	0.12	0.12	0.12	0.12

LANDMARK - RT TROCHANTER (18)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	3.34	1.26	1.27	5.41	-7.27	0.85	-8.66	-5.88	3.54	0.57	2.70	4.57	0.0	0.0	0.0	0.0
0.10	7	3.26	1.42	0.92	5.59	-7.41	0.91	-8.93	-5.92	3.51	0.60	2.63	4.60	0.16	0.16	0.16	0.16
F 0.20	7	3.07	1.24	1.08	5.05	-7.34	0.83	-8.70	-5.97	3.53	0.60	2.64	4.61	0.20	0.20	0.20	0.20
D 0.30	7	3.12	1.02	1.45	4.80	-7.32	0.86	-8.72	-5.91	3.69	0.56	2.77	4.61	0.09	0.09	0.09	0.09
R 0.40	7	3.16	0.87	1.73	5.59	-7.32	0.92	-8.82	-5.82	3.53	0.61	2.73	4.72	0.05	0.05	0.05	0.05
W 0.50	7	3.38	1.13	1.53	5.23	-7.36	0.97	-8.95	-5.78	3.57	0.57	2.73	4.60	0.23	0.23	0.23	0.23
A 0.60	7	3.44	1.13	1.58	5.30	-7.46	0.97	-9.04	-5.87	3.54	0.54	2.73	4.50	0.12	0.12	0.12	0.12
K 0.70	7	3.38	1.12	1.54	5.22	-7.42	0.82	-8.77	-6.07	3.53	0.49	2.82	4.43	0.08	0.08	0.08	0.08
D 0.80	7	3.28	1.23	1.27	5.29	-7.38	0.92	-8.90	-5.85	3.74	0.52	2.86	4.56	0.14	0.14	0.14	0.14
O 0.90	7	3.27	1.24	1.24	5.31	-7.41	0.95	-8.97	-5.85	3.75	0.52	2.93	4.59	0.05	0.05	0.05	0.05
1.00	7	3.36	1.17	1.45	5.27	-7.29	0.97	-8.88	-5.77	3.77	0.45	3.02	4.51	0.15	0.15	0.15	0.15
0.0	7	3.36	1.17	1.45	5.27	-7.29	0.97	-8.88	-5.70	3.77	0.45	3.02	4.51	0.0	0.0	0.0	0.0
0.10	7	3.29	1.09	1.50	5.08	-7.38	0.94	-8.92	-5.83	3.70	0.51	2.86	4.54	0.13	0.13	0.13	0.13
K 0.20	7	3.32	1.08	1.55	5.10	-7.38	0.88	-8.82	-5.95	3.74	0.54	2.82	4.60	0.03	0.03	0.03	0.03
R 0.30	7	3.31	1.19	1.36	5.26	-7.40	0.91	-8.90	-5.91	3.70	0.52	2.78	4.62	0.03	0.03	0.03	0.03
E 0.40	7	3.14	1.25	1.10	5.19	-7.42	0.99	-9.04	-5.83	3.60	0.59	2.69	4.62	0.17	0.17	0.17	0.17
T 0.50	7	3.21	1.07	1.07	4.96	-7.24	0.96	-8.81	-5.67	3.53	0.59	2.67	4.60	0.20	0.20	0.20	0.20
U 0.60	7	3.11	1.07	1.07	4.86	-7.29	1.01	-8.94	-5.63	3.54	0.54	2.75	4.53	0.10	0.10	0.10	0.10
R 0.70	7	3.20	1.33	1.02	5.39	-7.44	0.87	-8.87	-6.01	3.60	0.55	2.71	4.50	0.18	0.18	0.18	0.18
N 0.80	7	3.16	1.34	0.97	5.35	-7.40	0.89	-8.86	-5.96	3.52	0.57	2.68	4.56	0.07	0.07	0.07	0.07
O 0.90	7	3.12	1.34	0.92	5.32	-7.40	0.87	-8.84	-5.97	3.54	0.59	2.64	4.57	0.04	0.04	0.04	0.04
1.00	7	3.34	1.26	1.27	5.41	-7.27	0.85	-8.66	-5.86	3.54	0.57	2.70	4.57	0.26	0.26	0.26	0.26

LANDMARK - RT KNEE TOP (20)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T SIZE,N	18.92	0.60	17.93	19.90	-5.56	0.82	-6.20	-4.22	11.35	0.93	9.82	12.88	0.0	0.0	0.0	0.0
0.0	F	18.96	0.58	18.01	19.91	-5.58	0.81	-6.90	-4.25	11.35	1.04	9.64	13.05	0.04	0.04	0.04	0.04
0.20	F	18.93	0.60	17.94	19.91	-5.63	0.84	-7.03	-4.35	11.34	1.01	9.69	12.99	0.06	0.06	0.06	0.10
0.30	F	18.93	0.62	17.92	19.95	-5.58	0.82	-6.80	-4.36	11.39	0.93	9.86	12.92	0.07	0.07	0.07	0.18
0.40	R	18.89	0.59	17.93	19.85	-5.53	0.61	-6.54	-4.53	11.44	0.96	9.82	12.98	0.07	0.07	0.07	0.24
0.50	W	18.93	0.60	17.94	19.92	-5.49	0.63	-6.53	-4.46	11.39	0.93	9.87	12.91	0.06	0.06	0.06	0.30
0.60	A	18.97	0.61	17.97	19.97	-5.47	0.69	-6.61	-4.34	11.44	0.95	9.84	12.96	0.04	0.04	0.04	0.34
0.70	R	19.31	0.56	18.10	19.92	-5.48	0.77	-6.74	-4.22	11.42	0.97	9.82	13.01	0.04	0.04	0.04	0.39
0.80	D	19.05	0.60	18.05	19.94	-5.45	0.67	-6.54	-4.35	11.41	0.92	9.89	12.92	0.05	0.05	0.05	0.44
0.90	T	18.97	0.56	18.05	19.90	-5.47	0.74	-6.69	-4.25	11.30	0.94	9.83	12.90	0.09	0.09	0.09	0.52
1.00	W	18.94	0.68	17.83	20.05	-5.26	0.55	-6.16	-4.36	11.38	0.94	9.84	12.92	0.21	0.73	0.21	0.73
0.0	T	18.94	0.68	17.83	20.05	-5.26	0.55	-6.16	-4.36	11.38	0.94	9.84	12.92	0.0	0.0	0.0	0.0
0.10	T	18.97	0.63	17.95	20.00	-5.29	0.51	-6.13	-4.46	11.39	0.95	9.83	12.95	0.05	0.05	0.05	0.05
0.20	T	18.98	0.62	17.96	20.00	-5.33	0.55	-6.23	-4.44	11.36	0.97	9.79	12.96	0.04	0.04	0.04	0.09
0.30	T	19.04	0.56	18.12	19.96	-5.35	0.60	-6.34	-4.36	11.33	0.94	9.79	12.87	0.08	0.08	0.08	0.16
0.40	T	19.04	0.47	18.27	19.82	-5.31	0.71	-6.47	-4.14	11.27	0.90	9.80	12.75	0.07	0.07	0.07	0.23
0.50	T	19.04	0.61	18.05	20.04	-5.36	0.64	-6.42	-4.30	11.25	0.85	9.86	12.65	0.05	0.05	0.05	0.29
0.60	T	18.93	0.69	17.80	20.06	-5.56	0.71	-6.12	-4.41	11.26	0.87	9.84	12.68	0.23	0.23	0.23	0.52
0.70	T	18.87	0.55	17.97	19.76	-5.58	0.78	-6.85	-4.31	11.31	0.94	9.77	12.85	0.08	0.08	0.08	0.60
0.80	N	18.84	0.66	17.76	19.93	-5.60	0.84	-6.97	-4.23	11.34	0.96	9.76	12.92	0.04	0.04	0.04	0.64
0.90	T	18.85	0.72	17.67	20.02	-5.68	0.80	-6.59	-4.37	11.34	0.94	9.79	12.89	0.08	0.08	0.08	0.72
1.00	T	18.92	0.63	17.93	19.90	-5.56	0.82	-6.90	-4.22	11.35	0.93	9.82	12.88	0.14	0.86	0.14	0.86

LANDMARK - RT SHOULDER CENTER (22)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T SIZE,N	-1.42	0.70	-2.57	0.56	-0.68	0.68	-7.67	-5.46	18.75	1.27	16.67	20.83	0.0	0.0	0.0	0.0
0.10	F	-3.25	1.13	-5.10	-1.40	-6.86	0.69	-8.03	-5.72	18.58	1.28	16.58	20.77	1.86	1.86	1.86	1.86
0.20	F	-3.18	1.10	-4.98	-1.37	-6.71	0.67	-7.81	-5.60	18.74	1.37	16.48	20.99	0.18	0.18	0.18	0.24
0.30	F	-3.06	1.10	-4.88	-1.25	-6.48	0.69	-7.61	-5.35	18.96	1.45	16.58	21.33	0.34	0.34	0.34	0.37
0.40	R	-2.78	0.98	-4.38	-1.18	-6.21	0.73	-7.41	-5.00	19.33	1.50	16.88	21.79	0.54	0.54	0.54	0.92
0.50	W	-2.25	0.79	-3.54	-0.96	-6.06	0.86	-7.48	-4.65	19.83	1.35	17.61	22.05	0.74	0.74	0.74	3.66
0.60	A	-1.61	0.79	-2.91	-0.30	-5.78	1.04	-7.48	-4.08	20.37	1.18	18.44	22.30	0.89	0.89	0.89	4.55
0.70	R	-0.85	0.93	-2.45	0.75	-5.12	1.23	-7.14	-3.11	20.99	1.05	19.27	22.71	1.18	1.18	1.18	5.72
0.80	D	-0.63	0.91	-2.10	0.89	-4.62	1.50	-7.09	-2.16	21.39	0.83	20.03	22.74	0.68	0.68	0.68	6.41
0.90	T	-0.29	0.95	-1.84	1.26	-4.22	1.41	-6.53	-1.92	21.63	0.62	20.61	22.66	0.57	0.57	0.57	7.97
1.00	T	-0.24	1.20	-2.21	1.73	-3.59	1.38	-5.86	-1.33	21.85	0.53	20.98	22.73	0.67	0.67	0.67	7.64
0.0	T	-0.24	1.20	-2.31	1.14	-3.94	1.46	-5.86	-1.33	21.85	0.53	20.98	22.73	0.0	0.0	0.0	0.0
0.10	T	-0.44	1.22	-2.13	0.69	-4.66	1.49	-7.11	-2.22	21.00	0.73	19.80	22.20	0.92	1.45	1.45	3.53
0.20	R	-0.50	1.11	-2.24	0.03	-5.11	1.45	-7.49	-2.73	20.54	0.83	19.17	21.91	0.75	2.20	2.20	2.72
0.30	E	-0.40	1.27	-2.28	0.61	-5.36	1.25	-7.41	-3.30	20.14	0.99	18.49	21.73	0.52	2.72	2.72	3.20
0.40	T	-1.33	0.73	-2.49	-0.18	-5.68	1.17	-7.59	-3.76	19.76	1.08	17.99	21.53	0.48	3.73	3.73	4.53
0.50	U	-1.54	0.53	-2.41	-0.68	-6.02	1.07	-7.77	-4.26	19.42	1.11	17.59	21.25	0.53	3.73	3.73	4.45
0.60	R	-1.65	0.56	-2.57	-0.73	-6.19	1.05	-7.90	-4.47	19.12	1.18	17.19	21.05	0.36	4.09	4.09	4.45
0.70	N	-1.65	0.59	-2.62	-0.68	-6.38	1.01	-8.04	-4.72	18.94	1.20	16.97	20.91	0.26	4.35	4.35	4.69
0.80	N	-1.46	0.74	-2.68	-0.24	-6.63	0.99	-8.26	-5.01	18.84	1.21	16.83	20.80	0.34	4.69	4.69	4.69
0.90	T	-1.42	0.70	-2.57	-0.26	-6.56	0.68	-7.67	-5.46	18.75	1.27	16.67	20.83	0.10	0.10	0.10	0.10

LANDMARK - RT ELBOW CENTER (24)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	6.12	0.63	5.09	7.15	-5.96	0.76	-7.19	-4.72	11.57	0.71	10.40	12.74	0.0	0.0	0.0	0.0
0.10	F	5.19	0.60	4.20	6.18	-7.11	0.89	-8.58	-5.65	12.24	1.22	10.24	14.25	1.63	1.63	1.63	1.63
0.20	R	5.23	0.81	3.90	6.56	-7.40	0.90	-8.88	-5.92	12.34	1.62	9.65	14.96	0.29	1.93	1.93	1.93
0.30	E	5.24	0.95	3.69	6.79	-7.41	0.85	-8.80	-6.02	12.84	1.21	9.32	16.29	0.50	2.43	2.43	2.43
0.40	A	6.06	1.14	4.18	7.93	-6.75	1.14	-8.62	-4.88	14.30	2.49	9.98	18.14	1.63	4.06	4.06	4.06
0.50	M	7.15	1.16	5.24	9.05	-5.59	1.82	-8.58	-2.60	15.90	2.57	11.70	21.44	6.50	6.50	6.50	6.50
0.60	A	8.31	1.14	6.44	10.18	-3.78	2.03	-7.11	-0.45	18.01	2.51	13.90	22.13	3.01	9.51	9.51	9.51
0.70	R	9.44	1.30	7.30	11.58	-1.59	1.87	-6.66	1.48	19.70	2.26	15.99	23.41	2.99	12.50	12.50	12.50
0.80	D	10.24	1.84	7.22	13.26	0.22	2.00	-3.06	3.51	20.91	1.81	17.94	23.87	3.32	14.82	14.82	14.82
0.90	N	10.26	1.18	8.32	12.20	0.39	1.00	-1.25	2.02	21.05	0.87	19.62	22.49	0.22	15.04	15.04	15.04
1.00	P	10.23	1.03	8.54	11.92	0.47	1.72	-2.34	3.28	20.90	0.99	19.27	22.52	0.18	15.22	15.22	15.22
0.0	T	10.23	1.03	8.54	11.92	0.47	1.72	-2.34	3.28	20.90	0.99	19.27	22.52	0.0	0.0	0.0	0.0
0.10	F	10.30	1.14	8.44	12.16	-1.28	1.18	-3.21	0.66	20.19	0.94	18.66	21.72	1.89	1.89	1.89	1.89
0.20	R	9.64	0.71	8.48	10.80	-3.25	0.92	-4.76	1.73	18.59	0.84	17.32	20.06	2.56	4.45	4.45	4.45
0.30	E	8.38	0.93	6.85	9.90	-5.16	1.57	-7.74	-2.57	16.50	1.28	14.46	18.67	3.12	7.57	7.57	7.57
0.40	A	7.62	1.14	5.75	9.48	-5.91	0.58	-8.86	-4.97	15.10	1.23	13.08	17.12	1.82	9.39	9.39	9.39
0.50	M	7.69	0.99	5.26	8.52	-6.56	0.52	-7.41	-5.71	13.54	1.04	11.88	15.40	1.75	11.14	11.14	11.14
0.60	A	6.45	0.86	5.04	7.86	-6.69	0.57	-7.62	-5.75	12.56	1.04	10.95	14.36	1.08	12.23	12.23	12.23
0.70	R	6.13	0.75	4.90	7.37	-5.39	0.77	-7.65	-5.14	12.08	1.01	10.42	13.74	0.72	12.24	12.24	12.24
0.80	N	6.03	0.72	4.85	7.20	-6.20	0.87	-7.63	-4.78	11.72	0.90	10.28	13.23	0.40	13.34	13.34	13.34
0.90	P	6.04	0.68	4.93	7.15	-6.13	0.78	-7.41	-4.85	11.58	0.83	10.22	12.94	0.19	13.53	13.53	13.53
1.00	T	6.12	0.63	5.09	7.15	-5.96	0.76	-7.19	-4.72	11.57	0.71	10.40	12.74	0.19	13.72	13.72	13.72

LANDMARK - RT WRIST CENTER (26)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	15.24	0.51	14.40	16.08	-2.62	0.65	-3.68	-1.56	13.18	0.21	12.83	13.53	0.0	0.0	0.0	0.0
0.10	F	14.21	0.92	12.70	15.72	-3.52	0.56	-5.09	-1.94	13.59	1.58	11.10	16.29	1.46	1.46	1.46	1.46
0.20	R	13.96	0.95	12.41	15.52	-3.09	1.00	-5.38	-0.80	15.01	2.58	10.78	19.25	2.87	2.87	2.87	2.87
0.30	E	13.50	1.05	12.18	15.62	-2.46	2.78	-7.02	2.10	16.76	3.96	10.78	23.24	1.85	4.72	4.72	4.72
0.40	A	13.98	1.05	12.10	15.98	-1.98	2.44	-5.98	2.02	18.14	2.20	14.53	21.74	1.46	6.18	6.18	6.18
0.50	M	13.98	1.25	11.94	16.03	0.01	2.62	-4.28	4.33	20.24	2.24	16.87	23.60	2.89	9.08	9.08	9.08
0.60	A	14.41	1.16	12.51	16.32	2.90	2.57	-1.32	7.12	20.12	1.12	14.8	19.73	2.57	3.49	3.49	3.49
0.70	R	15.28	1.13	13.43	17.13	5.33	2.45	1.31	9.35	23.27	0.97	21.67	24.86	2.81	15.38	15.38	15.38
0.80	D	15.96	1.05	14.23	17.69	7.19	2.19	3.59	0.79	23.76	0.98	22.16	25.37	2.64	17.42	17.42	17.42
0.90	N	16.65	0.86	15.24	18.05	7.02	0.98	5.41	8.63	23.24	0.54	22.33	24.09	0.90	18.32	18.32	18.32
1.00	P	17.35	0.77	16.10	18.64	7.20	2.07	3.80	1.60	22.84	0.44	22.09	23.53	0.83	19.15	19.15	19.15
0.0	T	17.35	0.77	16.10	18.61	7.20	2.07	3.80	1.60	22.81	0.44	22.09	23.53	0.0	0.0	0.0	0.0
0.10	F	16.70	1.14	14.84	18.57	5.53	2.26	1.82	9.24	22.85	1.15	20.95	24.75	1.80	1.80	1.80	1.80
0.20	R	16.07	1.39	13.78	18.35	3.16	2.17	-0.40	6.72	22.29	1.56	19.73	24.85	2.51	4.31	4.31	4.31
0.30	E	15.72	1.39	13.44	18.01	0.10	1.36	-2.13	2.33	20.50	1.81	17.64	23.56	3.51	7.62	7.62	7.62
0.40	A	15.37	1.29	13.25	17.50	-2.84	2.03	-6.18	0.49	18.00	2.33	14.19	21.81	3.95	11.77	11.77	11.77
0.50	M	15.48	1.16	13.57	17.38	1.38	2.04	-4.45	-1.63	16.95	1.22	14.95	18.94	1.0	2.87	2.87	2.87
0.60	A	15.34	0.88	13.89	16.78	-3.63	0.75	-4.86	-2.40	15.15	0.96	13.57	16.73	1.87	14.74	14.74	14.74
0.70	R	15.25	0.67	14.14	16.35	-3.47	0.81	-4.19	-2.15	14.44	0.59	13.14	15.06	1.07	15.80	15.80	15.80
0.80	D	15.27	0.62	14.25	16.29	-3.17	0.76	-4.41	-1.93	13.55	0.28	13.09	14.00	0.63	16.44	16.44	16.44
0.90	N	15.25	0.57	14.31	16.19	-2.98	0.74	-4.20	-1.76	13.27	0.16	13.01	13.53	0.33	16.76	16.76	16.76
1.00	P	15.24	0.51	14.40	16.08	-2.62	0.65	-3.68	-1.56	13.18	0.21	12.83	13.53	0.37	17.14	17.14	17.14

MVMT NO. 11140/33

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +13.0, -13.0, +4.8 TO PANEL CONTROLLER AT +23.0, +10.0, +23.0 AND RETURNS. LEFT HAND REMAINS AT THROTTLE CONTROLLER AT +18.0, +10.0, +12.4.

MOTION NUMBER - 12140
BACK ANGLE - 30

SUB-MOVEMENT

TIME DATA			
	MEAN	STD DEV	RANGE
RGHT FWD	0.73	0.08	0.60 TO 0.80 SECS.
RGHT REV	0.83	0.13	0.70 TO 1.00 SECS.

LANDMARK - NASION

(1)

TIME	SAMPLE SIZE,N	(- - - X - CO-ORDINATE - - -)			(- - - Y - CO-ORDINATE - - -)			(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	
0.0	7	0.60	1.53	-1.91	3.11	-2.44	1.15	-4.33	-0.55	26.76	1.76	23.90	
F	7	0.28	1.48	-2.14	0.00	0.41	-0.67	0.68	27.86	1.38	25.60	29.66	
0.20	7	0.05	1.47	-2.36	2.45	1.25	0.80	-0.07	2.56	28.17	1.32	26.01	
0.30	7	-0.24	1.55	-2.79	2.31	1.91	1.37	-0.35	4.16	28.12	1.25	30.34	
0.40	7	-0.38	1.54	-2.91	2.35	1.49	1.49	-0.10	4.80	28.31	1.31	30.17	
W	7	-0.49	1.51	-2.96	1.99	2.53	1.55	-0.01	5.07	28.31	1.31	30.46	
A	7	-0.35	1.60	-2.97	2.27	2.76	1.78	-0.15	5.68	28.29	1.37	30.61	
R	7	-0.15	1.64	-2.84	2.54	3.13	1.94	-0.06	6.31	28.37	1.29	30.20	
D	7	-0.08	1.63	-2.71	2.55	3.09	2.03	0.28	7.10	28.47	1.30	30.48	
N	7	0.07	1.42	-2.26	2.40	3.98	2.09	0.55	7.41	28.51	1.32	30.35	
1.00	7	0.18	1.27	-1.91	2.27	3.95	2.38	0.06	7.85	28.52	1.34	30.31	
0.0	7	0.18	1.27	-1.91	2.27	3.95	2.38	0.06	7.85	28.52	1.34	30.31	
0.10	7	0.46	1.51	-2.01	2.93	2.55	2.34	-1.29	6.39	27.84	1.86	26.26	
0.20	7	0.54	1.59	-1.07	3.15	1.86	2.26	-1.84	5.56	27.62	1.73	30.45	
R	7	0.61	1.55	-1.94	3.15	2.29	2.05	-2.07	4.66	27.47	1.60	29.10	
E	7	0.56	1.57	-2.02	3.13	0.71	1.82	-2.27	3.69	27.39	1.54	28.84	
T	7	0.50	1.55	1.44	-1.82	2.92	0.09	1.56	-2.47	2.65	27.28	1.51	29.91
U	7	0.52	1.48	-1.91	2.95	0.57	1.28	-2.67	1.52	27.17	1.56	29.72	
R	7	0.56	1.45	-1.82	2.94	-1.26	1.11	-3.09	0.56	27.05	1.67	29.72	
N	7	0.64	1.40	-1.66	2.94	-1.82	1.06	-3.57	-0.08	26.98	1.77	24.31	
0.90	7	0.72	1.43	-1.62	2.23	1.10	-2.23	1.10	-0.42	26.94	1.78	24.00	
1.00	7	0.60	1.53	-1.91	3.11	-2.44	-4.33	-0.55	26.78	1.76	23.90	29.66	

LANDMARK - CERVICALE

(2)

TIME	SAMPLE SIZE,N	(- - - X - CO-ORDINATE - - -)			(- - - Y - CO-ORDINATE - - -)			(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-6.61	1.10	-8.42	-4.80	0.66	1.42	-1.66	2.99	21.33	1.31	19.19	23.47
F	7	-6.88	1.06	-8.61	-5.15	1.13	1.12	-0.71	2.96	21.27	1.41	18.96	23.58
0.20	7	-6.82	1.05	-8.53	-5.10	1.46	1.03	-0.23	3.15	21.27	1.41	18.96	23.57
0	7	-6.65	1.04	-8.35	-4.95	1.71	0.94	0.18	3.25	21.34	1.37	19.09	23.60
R	7	-6.65	0.92	-8.16	-5.15	1.81	0.90	0.34	3.28	21.52	1.35	19.31	23.73
W	7	-6.49	1.06	-8.22	-4.75	1.87	0.69	0.75	3.00	21.68	1.34	19.49	23.88
A	7	-6.08	1.00	-7.71	-4.44	2.11	0.70	0.96	3.82	21.82	1.32	19.65	23.98
R	7	-5.69	1.07	-7.44	-3.95	2.46	0.87	1.03	3.89	22.00	1.22	20.00	23.99
D	7	-5.49	0.91	-6.98	-4.00	2.87	0.84	1.49	4.26	22.19	1.12	20.36	24.03
0.90	7	-5.20	0.82	-6.85	-4.16	3.11	0.80	1.80	4.42	22.28	1.10	20.47	24.09
1.00	7	-5.43	0.71	-6.59	-4.27	3.36	1.04	1.65	5.07	22.29	1.22	20.29	24.30
0.0	7	-5.43	0.71	-6.59	-4.27	3.36	1.04	1.65	5.07	22.29	1.22	20.29	24.30
0.10	7	-5.88	0.85	-7.28	-4.48	3.14	1.49	0.69	5.59	22.39	1.01	20.44	23.74
R	7	-6.10	0.84	-7.47	-4.73	2.93	1.36	0.70	5.16	21.88	1.11	20.04	23.69
0.30	7	-6.19	0.79	-7.48	-4.89	2.80	1.41	0.49	5.11	21.74	1.11	19.92	23.57
E	7	-6.43	0.91	-7.92	-4.93	2.46	1.29	0.34	4.58	21.50	1.30	19.44	23.68
T	7	-6.56	1.03	-8.24	-4.88	2.19	1.09	0.40	3.99	21.49	1.27	19.40	23.88
U	7	-6.65	1.03	-8.34	-4.95	1.87	1.06	0.13	3.60	21.56	1.20	19.58	23.53
R	7	-6.52	1.06	-8.27	-4.78	1.04	1.05	-0.08	3.37	21.49	1.20	19.53	23.46
N	7	-6.59	1.08	-8.36	-4.81	1.28	1.17	-0.65	3.20	21.44	1.24	19.41	23.47
0.90	7	-6.50	0.99	-8.12	-4.89	1.05	1.20	-0.91	3.01	21.39	1.25	19.35	23.43
1.00	7	-6.61	1.10	-8.42	-4.80	1.04	1.42	-1.66	2.99	21.33	1.31	19.19	23.47

LANDMARK - SUPRASENTNALE

(3)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)						(- - - - Y - CO-ORDINATE - - - -)						(- - - - Z - CO-ORDINATE - - - -)						DISTANCE MOVED							
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
0.0	T	1.61	-2.76	1.01	-5.40	-0.12	-0.12	1.01	1.08	-0.76	-0.76	2.78	20.85	0.90	19.38	22.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	T	1.12	-3.12	1.98	-6.36	0.12	1.42	1.14	1.14	-0.45	-0.45	3.28	20.94	0.96	19.40	22.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	
F	0.20	7	-3.22	1.95	-6.41	-0.02	1.63	1.15	1.25	-0.25	-0.25	3.51	21.22	1.01	19.36	22.68	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	
R	0.30	7	-3.17	1.94	-6.35	0.01	1.75	1.03	0.06	3.44	20.34	1.94	19.40	22.48	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
R	0.40	7	-3.29	1.89	-6.38	-0.19	2.08	1.01	0.42	3.74	21.04	0.94	19.40	22.49	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
W	0.50	7	-3.07	1.46	-5.46	-0.68	2.19	0.55	0.64	3.74	21.18	0.77	19.92	22.43	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
A	0.60	7	-2.72	1.32	-4.88	-0.55	2.50	0.88	1.06	3.94	21.37	0.89	19.91	22.82	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
R	0.70	7	-2.46	1.00	-4.11	-0.82	2.84	0.88	1.39	4.28	21.60	0.88	20.16	23.04	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
D	0.80	7	-2.31	0.89	-3.77	-0.86	3.27	0.93	1.75	4.79	21.76	0.81	20.43	23.09	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
N	0.90	7	-2.20	0.90	-3.68	-0.73	3.68	1.09	1.89	5.47	21.96	0.66	20.87	23.05	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
1.00	7	-2.24	1.03	-3.92	-0.56	3.69	1.12	1.85	5.53	22.12	0.72	20.94	23.30	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	

LANDMARK - RT ACROMION

(4)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)						(- - - - Y - CO-ORDINATE - - - -)						(- - - - Z - CO-ORDINATE - - - -)						DISTANCE MOVED									
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT				
0.0	T	5.24	-5.24	1.24	-7.27	-3.21	-8.02	1.00	-9.05	-6.39	-6.39	19.54	1.24	17.48	21.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	T	5.64	-5.64	1.16	-7.55	-3.73	-7.67	0.84	-9.05	-6.30	-6.30	19.86	1.28	17.76	21.97	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	
F	0.20	7	5.67	-5.67	1.20	-7.64	-3.70	-7.50	0.80	-8.81	-6.19	-6.19	20.19	1.28	18.03	22.22	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
O	0.30	7	5.43	-5.43	1.29	-7.54	-3.32	-7.29	0.76	-8.53	-6.05	-6.05	20.39	1.26	18.32	22.46	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
R	0.40	7	5.04	-5.04	1.33	-7.22	-2.86	-7.17	0.95	-7.61	-5.61	-5.61	20.75	1.30	18.62	22.88	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
W	0.50	7	4.58	-4.58	1.59	-7.20	-1.97	-7.17	1.45	-9.56	-7.79	-7.79	21.25	1.38	19.00	23.51	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
A	0.60	7	3.48	-3.48	1.09	-5.27	-1.69	-6.24	1.15	-8.12	-4.36	-4.36	21.94	1.29	19.79	24.02	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
O	0.70	7	2.41	-2.41	0.86	-3.03	-1.00	-5.34	1.00	-1.00	-5.08	-2.54	22.54	1.13	20.69	24.38	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
D	0.80	7	1.64	-1.64	0.75	-2.87	-0.41	-4.27	1.33	-6.45	-2.03	-2.03	23.33	0.96	21.45	24.60	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
N	0.90	7	1.36	-1.36	0.77	-2.62	-0.09	-3.58	1.42	-5.91	-1.26	-1.26	23.34	0.86	21.92	24.76	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
1.00	7	-1.57	1.09	-3.36	0.22	-3.52	1.19	-5.47	-1.57	-1.57	23.40	0.84	22.02	24.78	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23		

LANDMARK - RT GRIP CENTER (16)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	SIZE,N	12.10	0.70	10.94	13.25	-13.51	0.70	-14.66	-12.37	4.31	1.06	2.77	6.25	0.0	0.0	0.0	0.0
0.0	F	11.46	0.60	10.47	12.44	-12.57	1.06	-14.32	-10.83	7.48	1.88	4.40	10.56	3.18	3.18	3.18	3.18
0.10	F	11.80	0.11	9.97	13.62	-10.34	1.43	-12.69	-7.99	11.17	2.35	7.32	15.02	4.33	4.33	4.33	4.33
0.20	R	12.73	1.53	10.28	15.28	-6.38	1.76	-9.87	-4.10	15.22	2.43	11.23	19.20	5.35	5.35	5.35	5.35
0.30	R	13.78	1.51	11.30	16.27	-2.78	1.88	-5.85	-0.33	18.78	2.35	14.78	22.64	5.60	5.60	5.60	5.60
0.40	R	14.62	1.61	11.99	17.26	-1.23	1.82	-1.74	4.21	21.57	2.06	18.19	24.95	4.96	4.96	4.96	4.96
0.50	M	15.89	1.28	13.78	18.00	4.44	1.39	2.16	6.71	23.35	1.64	20.66	26.04	3.88	3.88	3.88	3.88
0.60	A	17.48	0.72	16.29	18.66	7.19	0.88	5.76	8.63	26.47	1.11	22.65	26.28	3.67	3.67	3.67	3.67
0.70	D	18.78	0.48	17.99	19.57	8.95	0.76	7.70	10.19	24.70	0.59	23.73	25.66	2.20	2.20	2.20	2.20
0.80	D	19.59	0.64	18.54	20.65	9.69	0.77	8.42	10.95	24.54	0.24	24.14	24.94	1.11	1.11	1.11	1.11
0.90	N	20.30	1.09	18.21	21.79	9.82	0.85	8.43	11.21	24.33	0.25	23.91	24.74	0.48	0.48	0.48	0.48
1.00																	
0.0																	
0.10																	
0.20																	
0.30																	
0.40																	
0.50																	
0.60																	
0.70																	
0.80																	
0.90																	
1.00																	

LANDMARK - RT TROCHANTER (18)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	SIZE,N	1.02	0.90	5.24	-7.43	0.85	-8.82	-6.05	3.58	0.69	2.44	4.72	0.0	0.0	0.0	0.0	0.0
0.0	F	0.63	2.23	4.47	-7.20	0.83	-8.56	-5.84	3.66	0.64	2.61	4.71	0.33	0.33	0.33	0.33	0.33
0.10	F	2.29	4.54	-7.19	0.58	-8.80	-5.58	3.74	0.64	2.70	4.79	0.11	0.11	0.11	0.11	0.11	
0.20	R	2.15	4.80	-7.24	0.99	-8.87	-5.62	3.83	0.68	2.71	4.94	0.12	0.12	0.12	0.12	0.12	
0.30	R	2.12	4.87	-7.19	1.07	-8.94	-5.44	2.94	3.65	-3.58	8.38	1.43	1.43	1.43	1.43	1.43	
0.40	R	1.94	4.83	-7.32	0.97	-8.91	-5.72	3.41	0.08	-14.57	15.20	2.09	2.09	2.09	2.09	2.09	
0.50	M	1.80	4.58	-7.23	0.90	-8.71	-5.76	2.38	3.63	-3.57	8.33	2.08	2.08	2.08	2.08	2.08	
0.60	A	2.10	4.34	-7.08	0.90	-8.56	-5.60	3.80	0.68	2.68	4.93	1.43	1.43	1.43	1.43	1.43	
0.70	R	2.15	4.51	-6.87	1.01	-8.52	-5.22	3.93	0.70	2.78	5.07	0.27	0.27	0.27	0.27	0.27	
0.80	D	2.07	4.47	-6.97	0.90	-8.45	-5.49	4.00	0.64	2.95	5.05	0.14	0.14	0.14	0.14	0.14	
0.90	N	1.90	4.10	-7.34	0.67	-8.44	-6.24	3.33	0.61	2.94	4.93	0.46	0.46	0.46	0.46	0.46	
1.00																	
0.0																	
0.10																	
0.20																	
0.30																	
0.40																	
0.50																	
0.60																	
0.70																	
0.80																	
0.90																	
1.00																	

LANDMARK - RT KNEE TOP (20)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	18.93	0.45	18.20	19.66	-5.38	1.36	-7.61	-3.14	11.34	1.06	9.57	13.04	0.0	0.0	0.0	0.0
0.10	F	18.91	0.50	18.09	19.72	-5.43	1.34	-7.63	-3.23	11.28	1.02	9.59	12.93	0.07	0.07	0.07	0.07
0.20	R	18.83	0.53	18.01	19.76	-5.38	1.28	-7.43	-3.33	11.25	0.96	9.68	12.83	0.05	0.05	0.12	0.12
0.30	E	18.81	0.50	17.98	19.64	-5.36	1.18	-7.30	-3.42	11.27	0.95	9.71	12.82	0.08	0.08	0.20	0.20
0.40	R	18.81	0.55	17.92	19.71	-5.42	1.09	-7.21	-3.63	11.32	1.01	9.66	12.99	0.08	0.08	0.28	0.28
0.50	W	18.93	0.50	18.12	19.75	-5.47	1.08	-7.24	-3.70	11.32	1.00	9.69	12.95	0.13	0.13	0.41	0.41
0.60	A	18.95	0.46	18.19	19.70	-5.51	1.03	-7.20	-3.81	11.23	1.02	9.58	12.89	0.06	0.06	0.46	0.46
0.70	R	18.83	0.69	17.69	19.97	-5.46	1.00	-7.11	-3.82	11.28	0.98	9.68	12.88	0.13	0.13	0.59	0.59
0.80	D	18.83	0.54	17.94	19.71	-5.36	1.10	-7.17	-3.55	11.29	0.98	9.69	12.90	0.10	0.10	0.70	0.70
0.90	R	18.88	0.45	18.14	19.61	-5.32	1.17	-7.24	-3.40	11.34	1.02	9.72	12.96	0.08	0.08	0.77	0.77
1.00	W	18.95	0.54	17.96	19.74	-5.24	1.08	-7.02	-3.46	11.37	0.99	9.74	13.00	0.09	0.09	0.87	0.87
0.0	F	18.95	0.54	17.96	19.74	-5.24	1.08	-7.02	-3.46	11.37	0.99	9.74	13.00	0.0	0.0	0.0	0.0
0.10	R	18.94	0.43	18.23	19.65	-5.06	0.87	-6.49	-3.63	11.38	1.04	9.68	13.09	0.20	0.20	0.20	0.20
0.20	E	18.88	0.61	17.90	19.86	-5.04	0.80	-6.35	-3.73	11.37	0.99	9.76	12.99	0.07	0.07	0.27	0.27
0.30	R	18.79	0.77	17.53	20.05	-5.10	0.79	-6.40	-3.80	11.35	0.99	9.73	12.97	0.11	0.11	0.38	0.38
0.40	E	18.86	0.50	18.05	19.68	-5.06	0.99	-6.68	-3.44	11.34	1.02	9.66	13.01	0.08	0.08	0.46	0.46
0.50	T	18.95	0.53	18.00	19.91	-5.20	1.09	-6.98	-3.41	11.29	1.03	9.60	12.98	0.17	0.17	0.63	0.63
0.60	U	18.80	0.57	17.92	19.78	-5.28	0.95	-6.84	-3.72	11.33	1.06	9.58	13.07	0.14	0.14	0.77	0.77
0.70	R	18.69	0.59	17.72	19.65	-5.40	1.22	-7.40	-3.40	11.30	1.01	9.49	13.10	0.21	0.21	0.97	0.97
0.80	N	18.84	0.54	17.95	19.74	-5.36	1.24	-7.39	-3.33	11.38	1.06	9.64	13.12	0.18	0.18	1.16	1.16
0.90	R	18.89	0.47	18.12	19.66	-5.41	1.35	-7.62	-3.19	11.30	1.12	9.52	13.20	0.07	0.07	1.23	1.23
1.00	W	18.93	0.45	18.20	19.66	-5.38	1.36	-7.61	-3.38	11.30	1.06	9.57	13.04	0.08	0.08	1.31	1.31

LANDMARK - RT SHOULDER CENTER (22)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	3.41	1.07	-5.17	-1.65	-7.43	0.69	-8.55	-6.32	17.85	0.94	16.30	19.39	0.0	0.0	0.0	0.0
0.10	F	4.02	1.19	-5.97	-2.06	-7.36	0.81	-8.69	-6.03	18.12	1.02	16.45	19.79	0.67	0.67	0.90	0.90
0.20	D	4.07	1.16	-5.97	-2.17	-7.22	0.77	-8.48	-5.96	18.34	1.02	16.64	19.97	0.24	0.24	0.90	0.90
0.30	R	3.70	1.19	-5.65	-1.75	-7.06	0.64	-8.11	-6.01	18.44	0.96	16.87	20.01	0.42	0.42	1.32	1.32
0.40	E	2.90	1.24	-4.92	-0.87	-6.88	0.64	-7.93	-5.83	18.86	1.00	17.23	20.49	0.93	0.93	2.25	2.25
0.50	W	2.08	1.28	-4.19	0.02	-6.52	0.61	-7.52	-5.52	19.42	1.08	17.64	21.19	1.05	1.05	3.20	3.20
0.60	A	1.50	0.82	-2.84	-0.80	-5.80	0.82	-7.14	-4.45	20.19	1.06	18.46	21.92	1.21	1.21	4.50	4.50
0.70	R	1.03	0.76	-2.28	0.23	-5.25	0.86	-6.66	-3.83	20.84	0.87	19.41	22.28	0.98	0.98	5.48	5.48
0.80	D	0.54	0.75	-1.77	0.70	-4.63	0.84	-6.01	-3.26	21.38	0.73	20.18	22.58	0.95	0.95	6.44	6.44
0.90	R	0.41	0.79	-1.70	0.88	-4.12	0.92	-5.63	-2.60	21.58	0.66	20.61	22.76	0.61	0.61	7.04	7.04
1.00	W	0.67	0.80	-1.98	0.63	-3.94	0.90	-5.42	-2.47	21.72	0.65	20.66	22.79	0.32	0.32	7.36	7.36
0.0	F	0.67	0.80	-1.98	0.63	-3.94	0.90	-5.42	-2.47	21.72	0.65	20.66	22.79	0.0	0.0	0.0	0.0
0.10	R	0.99	1.13	-2.29	1.31	-3.56	1.37	-6.27	-1.79	21.35	0.73	20.15	22.55	0.49	0.49	0.49	0.49
0.20	E	1.42	1.31	-2.14	1.18	-4.03	1.22	-6.65	-2.05	20.63	0.74	19.42	21.84	1.05	1.05	1.54	1.54
0.30	R	2.14	2.00	-2.90	1.12	-4.74	1.06	-5.31	-1.75	20.00	0.83	18.65	21.35	1.16	1.16	2.70	2.70
0.40	E	4.01	3.50	-0.88	-4.94	-6.39	0.86	-7.69	-3.84	19.53	0.75	18.30	20.77	1.00	1.00	3.70	3.70
0.50	T	3.50	0.88	-4.94	-2.06	-6.39	0.86	-7.80	-4.98	19.11	0.75	17.88	20.33	0.97	0.97	4.67	4.67
0.60	U	3.83	0.84	-5.21	-2.45	-6.86	0.81	-8.19	-5.54	18.80	0.80	17.48	20.11	0.65	0.65	5.32	5.32
0.70	R	4.06	0.90	-5.33	-2.59	-6.94	0.84	-8.32	-5.57	18.55	0.93	17.02	20.07	0.35	0.35	5.67	5.67
0.80	N	4.01	0.96	-5.59	-2.44	-7.29	0.74	-8.51	-6.07	18.24	0.89	16.78	19.70	0.46	0.46	6.14	6.14
0.90	R	3.74	1.03	-5.43	-2.04	-7.47	0.66	-8.56	-6.37	18.00	0.87	16.56	19.43	0.41	0.41	6.55	6.55
1.00	W	3.41	1.07	-5.17	-0.80	-1.98	0.63	-8.55	-6.30	17.85	0.94	16.30	19.39	0.36	0.36	6.91	6.91

LANDMARK - RT ELBOW CENTER

(24)

TIME	SAMPLE	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE				
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
0.0	6	0.13	1.11	-1.69	1.95	-10.26	0.86	-11.67	-8.85	8.30	1.51	5.82	10.78	0.0	0.10	6	0.13	1.11	-1.69		
F	0.20	7	-0.73	0.84	-2.10	0.65	-9.89	0.99	-11.52	-8.27	8.33	1.54	5.81	10.86	0.94	0.20	7	-0.13	1.01	-1.79	
O	0.30	7	1.56	1.40	-0.73	1.53	-9.71	0.95	-11.27	-8.16	8.82	1.70	6.04	11.60	0.79	1.73	7	1.56	1.40	-0.73	
R	0.40	7	3.89	1.25	1.83	5.94	-9.16	0.79	-10.45	-7.87	10.37	1.98	6.82	13.32	2.18	3.90	7	3.89	1.25	1.83	
W	0.50	7	6.28	0.93	7.81	-6.42	1.05	-9.81	-6.36	12.03	2.36	8.16	15.90	3.23	7.13	7	6.28	0.93	7.81		
A	0.60	7	8.27	0.89	6.82	9.73	-3.85	1.50	-6.31	-1.26	17.39	2.43	18.59	3.78	10.90	7	8.27	0.89	6.82		
R	0.70	7	9.79	1.29	7.67	11.90	-1.14	2.31	-4.92	2.64	20.24	2.86	15.54	24.93	4.21	15.30	7	10.32	1.33	8.14	
D	0.80	7	10.40	1.31	8.24	12.55	0.19	1.53	-2.31	2.70	21.22	2.11	17.76	24.67	1.74	21.25	7	10.40	1.31	8.24	
N	0.90	6	10.90	6	10.21	1.48	7.78	12.64	0.53	0.64	-0.51	1.51	21.21	0.38	21.84	0.53	21.78	7	10.90	6	10.21
	1.00	6										1.57	21.09	0.66	20.01	22.07					
	0.0	6	10.21	1.48	7.78	12.64	0.53	0.64	-0.51	1.57	21.09	0.66	20.01	22.07	0.0	0.0	6	10.21	1.48	7.78	
	0.10	7	9.70	1.70	6.91	12.49	-1.58	1.54	-4.10	0.95	19.84	1.28	17.74	21.94	2.50	6.36	7	8.67	1.99	5.40	
	0.20	7	6.72	1.68	3.95	11.94	-4.55	2.07	-7.94	-1.16	17.61	1.63	14.94	20.29	3.85	10.09	7	4.05	1.71	8.71	
	0.30	7	4.05	1.71	1.24	6.85	-8.89	0.89	-8.37	-5.46	15.48	1.87	12.41	18.55	3.74	14.19	7	2.22	1.33	8.24	
	0.40	7	1.22	1.79	-1.71	4.16	-10.49	1.18	-10.92	-7.04	13.15	2.03	9.82	16.48	4.10	14.19	7	1.22	1.79	-1.71	
	0.50	7	-0.31	1.50	-2.77	2.16	-10.95	1.39	-13.22	-8.68	11.25	1.25	1.92	8.10	1.40	3.72	7	-0.31	1.50	-2.77	
	0.60	7	-0.70	1.16	-2.86	0.94	-10.84	1.32	-13.01	-8.67	9.23	1.04	1.66	7.31	12.77	2.01	19.93	7	-0.70	1.16	-2.86
	0.70	7	-0.95	1.08	-2.71	0.81	-10.81	1.19	-12.76	-8.85	8.62	1.67	6.45	12.01	1.05	20.97	7	-0.95	1.08	-2.71	
	0.80	7	-0.40	1.05	-2.12	1.33	-10.63	1.05	-12.35	-8.91	8.56	1.50	6.10	11.03	0.59	21.56	7	-0.40	1.05	-2.12	
	0.90	6	0.13	1.11	-1.69	1.95	-10.26	0.66	-11.67	-8.85	8.30	1.51	5.82	10.78	0.70	22.86	6	0.13	1.11	-1.69	

LANDMARK - RT WRIST CENTER

(26)

TIME	SAMPLE	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	6	8.53	0.56	7.61	9.46	-12.71	0.89	-14.17	-11.24	5.28	1.48	2.85	7.71	0.0	0.10	6	7.91	0.78	6.63	
F	0.20	7	8.27	1.33	6.09	10.46	-11.64	0.82	-12.98	-10.31	7.87	1.84	4.85	10.89	2.67	0.30	7	9.51	1.33	6.09
O	0.30	7	1.51	1.73	6.68	12.34	-9.91	1.07	-11.66	-8.16	10.35	2.43	6.37	14.33	3.05	5.92	7	1.51	1.73	6.68
R	0.40	7	11.60	1.50	9.14	14.07	-2.65	1.53	-9.07	-4.97	13.59	2.55	9.41	17.71	4.52	10.43	7	11.60	1.50	9.14
W	0.50	6	13.56	1.80	10.60	16.52	1.47	2.96	-5.16	-0.14	17.43	2.40	13.49	21.37	6.18	16.61	6	13.56	1.80	10.60
A	0.60	6	13.79	1.34	11.59	15.99	2.09	2.09	-3.38	6.32	20.58	2.81	16.08	25.29	5.60	22.21	6	13.79	1.34	11.59
R	0.70	6	15.21	0.97	13.62	16.80	4.81	0.72	3.63	5.99	22.80	1.98	17.55	24.05	6.67	22.89	6	15.21	0.97	13.62
D	0.80	5	16.43	0.87	15.01	17.86	6.52	0.64	5.48	7.56	22.92	1.45	19.88	24.64	3.40	26.29	5	16.43	0.87	15.01
N	0.90	5	17.14	0.82	15.80	18.48	7.37	0.56	6.45	8.29	23.12	0.53	22.25	23.99	1.12	29.61	5	17.14	0.82	15.80
	1.00	5	17.34	1.27	15.25	19.42	7.51	0.98	5.90	9.11	23.07	0.36	22.48	23.65	0.24	29.85	5	17.34	1.27	15.25
	0.0	5	17.34	1.27	15.25	19.42	7.51	0.98	5.90	9.11	23.07	0.36	22.48	23.65	0.0	0.0	5	17.34	1.27	15.25
	0.10	7	14.18	1.90	11.07	17.30	2.46	1.96	-0.77	5.68	21.49	2.04	24.87	24.87	2.32	24.87	7	14.18	1.90	11.07
	0.20	7	12.36	2.07	8.96	15.77	1.57	1.58	-4.16	1.02	19.16	2.25	15.47	22.85	5.00	11.18	7	12.36	2.07	8.96
	0.30	7	10.59	2.39	6.67	14.51	-6.38	2.30	-10.15	-2.61	15.93	2.48	11.86	20.00	6.06	17.24	7	10.59	2.39	6.67
	0.40	7	9.53	1.84	6.51	12.55	-9.05	2.79	-13.62	-4.48	13.83	1.40	16.12	3.55	2.72	20.79	7	9.53	1.84	6.51
	0.50	7	8.87	1.53	6.36	11.38	-10.92	1.28	-13.03	-8.82	11.45	2.14	7.94	14.97	3.10	23.89	7	8.87	1.53	6.36
	0.60	7	8.14	1.22	6.14	10.15	-12.56	1.41	-14.87	-10.25	8.89	2.32	5.09	12.69	3.13	27.02	7	8.14	1.22	6.14
	0.70	7	7.87	0.97	6.27	9.46	-13.21	1.35	-15.42	-11.00	7.00	2.22	3.37	10.64	2.01	29.03	7	7.87	0.97	6.27
	0.80	7	8.22	0.47	7.46	8.98	-13.08	1.09	-14.80	-11.29	6.03	1.90	2.91	9.15	1.04	30.07	6	8.22	0.47	7.46
	0.90	6	8.53	0.56	7.61	9.46	-12.71	0.89	-14.17	-11.24	5.28	2.85	7.71	0.89	0.89	30.97	7	8.53	0.56	7.61

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +18.0, +10.0, +12.4 TO PANEL CONTROLLER AT +23.0, +10.0, +23.0 AND RETURNS. RIGHT HAND REMAINS AT STICK CONTROLLER AT +20.0, 0.0, +15.0.

MOTION NUMBER - 2124J
BACK ANGLE - 30

SUB-MOVEMENT

TIME DATA		
MEAN	STD DEV	RANGE
LEFT FWD	0.54	0.15 0.40 TO 0.80 SECS.
LEFT REV	0.53	0.15 0.30 TO 0.70 SECS.

LANDMARK - NASION

(1)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE, N	-0.03	0.79	-1.34	1.27	0.48	1.23	-1.54	2.50	27.76	1.70	24.97	30.55	0.0	0.0	0.0	0.0	
0.0	7	-0.03	0.79	-1.34	1.27	0.27	0.83	-1.10	1.63	27.94	1.60	25.31	30.57	0.28	0.28	0.28	0.28	
0.10	7	-0.07	0.86	-1.49	1.35	0.27	0.83	-1.08	1.49	28.01	1.44	25.65	30.37	0.38	0.38	0.38	0.38	
F	0.20	7	-0.04	1.00	-1.67	1.59	0.21	0.78	-1.05	1.51	27.93	1.60	25.31	30.56	0.08	0.08	0.08	0.08
D	0.30	7	-0.04	0.84	-1.41	1.33	0.23	0.78	-1.05	1.48	27.85	1.75	24.98	30.72	0.09	0.09	0.09	0.09
R	0.40	7	-0.07	0.66	-1.15	1.00	0.25	0.75	-0.98	1.48	27.85	1.75	24.89	30.72	0.10	0.10	0.10	0.10
W	0.50	7	-0.03	0.55	-0.93	0.87	0.33	0.82	-0.02	1.68	27.80	1.68	24.89	30.72	0.66	0.66	0.66	0.66
A	0.60	7	-0.00	0.50	-0.82	0.81	0.33	0.82	-1.02	1.68	27.79	1.68	24.79	30.72	0.69	0.69	0.69	0.69
R	0.70	7	0.01	0.44	-0.72	0.73	0.28	0.82	-1.07	1.63	27.84	1.88	24.76	30.52	0.07	0.07	0.07	0.07
D	0.80	7	0.10	0.43	-0.60	0.80	0.34	0.80	-0.97	1.64	27.85	1.90	24.74	30.56	0.11	0.11	0.11	0.11
N	0.90	7	0.13	0.46	-0.62	0.88	0.42	0.80	-0.89	1.73	27.86	1.89	24.77	30.55	0.96	0.96	0.96	0.96
1.00	7	0.16	0.53	-0.71	1.02	0.45	0.88	-1.00	1.90	27.90	1.90	24.77	31.00	0.05	0.05	0.05	0.05	

LANDMARK - CERVICALE

(2)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					CO-ORDINATE				
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT				
T	SIZE, N	-7.26	1.50	-9.72	1.25	0.43	1.08	-2.19	1.34	21.35	1.20	19.57	23.52	0.0	0.0	0.0	0.0				
0.10	7	-6.89	1.25	-8.94	4.85	-0.43	0.93	-2.39	0.66	21.50	1.22	19.51	23.49	0.57	0.57	0.57	0.57				
F	0.20	-6.77	1.25	-8.82	4.71	-0.95	1.11	-2.76	0.87	21.42	1.23	19.40	23.44	0.17	0.17	0.17	0.17				
O	0.30	-6.75	1.02	-8.88	4.43	1.47	0.15	1.26	-1.91	2.21	27.78	1.67	25.05	30.52	0.11	0.11	0.11	0.11			
R	0.40	7	-0.05	1.01	-1.70	1.61	0.07	1.38	-2.18	2.33	27.75	1.62	25.09	30.41	0.06	0.06	0.06	0.06			
W	0.50	7	-0.97	0.97	-1.67	1.52	0.15	1.34	-2.05	2.35	27.75	1.61	25.10	30.40	0.10	0.10	0.10	0.10			
U	0.60	7	-0.04	0.88	-1.49	1.44	0.27	1.29	-1.85	2.38	27.76	1.66	25.07	30.45	0.08	0.08	0.08	0.08			
R	0.70	7	-0.04	0.81	-1.42	1.23	0.31	1.22	-1.69	2.30	27.76	1.66	25.04	30.48	0.12	0.12	0.12	0.12			
N	0.80	7	-0.09	0.79	-1.38	1.21	0.37	1.19	-1.59	2.32	27.76	1.68	25.00	30.49	0.07	0.07	0.07	0.07			
O	0.90	7	-0.09	0.79	-1.38	1.21	0.48	1.23	-1.54	2.50	27.76	1.70	24.96	30.55	0.06	0.06	0.06	0.06			
1.00	7	-0.03	0.79	-1.34	1.27	0.48	1.23	-1.54	2.50	27.76	1.70	24.96	30.55	0.12	0.12	0.12	0.12				

LANDMARK - SUPRASENTALE (3)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	-3.07	0.89	-4.52	-1.61	-0.07	1.13	-1.92	1.78	20.72	1.14	18.85	22.60	0.0	0.0	0.0	0.0	
0.0	S	-3.08	0.72	-4.26	-1.89	-0.28	0.94	-1.83	1.27	20.62	1.07	19.05	22.57	0.23	0.23	0.23	0.23	
0.0	N	-3.09	0.88	-4.53	-1.65	-0.35	1.32	-2.52	1.82	20.85	1.04	19.13	22.56	0.08	0.08	0.08	0.08	
F	0.20	-2.96	0.88	-4.33	-1.58	-0.25	1.26	-2.48	1.98	20.74	1.00	19.14	22.43	0.18	0.18	0.18	0.18	
O	0.30	-2.89	0.84	-4.38	-1.59	-0.19	1.34	-2.38	2.00	20.69	0.97	19.09	22.28	0.13	0.13	0.13	0.13	
R	0.40	-2.85	0.91	-4.38	-1.58	-0.29	1.31	-2.43	1.86	20.75	1.01	19.09	22.41	0.12	0.12	0.12	0.12	
W	0.50	-2.85	0.84	-4.23	-1.47	-0.29	1.31	-2.47	1.57	20.97	1.10	19.16	22.77	0.27	0.27	0.27	0.27	
A	0.60	-2.84	0.83	-4.20	-1.49	-0.45	1.23	-2.56	1.79	20.95	1.10	19.15	22.76	0.07	0.07	0.07	0.07	
R	0.70	-2.86	0.91	-4.35	-1.36	-0.39	1.32	-2.56	2.07	20.34	1.13	19.09	22.79	0.15	0.15	0.15	0.15	
D	0.80	-2.76	0.94	-4.31	-1.21	-0.27	1.43	-2.61	2.04	21.01	1.12	19.17	22.85	0.09	0.09	0.09	0.09	
O	0.90	-2.76	0.82	-4.10	-1.42	-0.20	1.37	-2.44	1.82	21.15	1.16	19.25	23.04	0.31	0.31	0.31	0.31	
N	1.00	-2.91	0.79	-4.21	-1.60	-0.44	1.38	-2.70	1.82	21.05	1.16	19.25	23.04	0.0	0.0	0.0	0.0	
T	0.0	7	-2.91	0.79	-4.21	-1.60	-0.44	1.38	-2.70	1.82	21.15	1.16	19.25	23.04	0.0	0.0	0.0	0.0
O	0.10	7	-2.99	0.69	-4.12	-1.56	-0.51	1.34	-2.70	1.68	21.15	1.23	19.13	23.16	0.11	0.11	0.11	0.11
C	0.20	7	-3.13	0.66	-4.22	-2.04	-0.62	1.35	-2.83	1.59	21.03	1.21	19.04	23.02	0.22	0.22	0.22	0.22
R	0.30	7	-3.28	0.69	-4.41	-2.14	-0.78	1.28	-2.87	1.32	20.98	1.09	19.19	22.76	0.22	0.22	0.22	0.22
E	0.40	7	-3.42	0.77	-4.68	-2.17	-0.93	1.21	-2.91	1.33	21.33	1.12	19.16	22.85	0.22	0.22	0.22	0.22
F	0.50	7	-3.41	0.83	-4.85	-1.96	-0.85	0.84	-2.92	0.53	20.97	1.13	19.12	22.81	0.09	0.09	0.09	0.09
T	0.60	7	-3.41	0.82	-4.85	-1.96	-0.85	0.84	-2.92	0.53	20.97	1.13	19.12	22.81	0.85	0.85	0.85	0.85
U	0.60	7	-3.34	1.02	-5.01	-1.67	-0.61	0.74	-1.83	0.61	20.95	1.11	19.13	22.78	0.25	0.25	0.25	0.25
R	0.70	7	-3.35	0.96	-4.93	-1.77	-0.53	0.76	-1.76	0.69	20.95	1.12	19.12	22.79	0.08	0.08	0.08	0.08
N	0.80	7	-3.20	0.74	-4.42	-1.99	-0.32	0.88	-1.76	1.12	20.95	1.10	19.10	22.70	0.26	0.26	0.26	0.26
O	0.90	7	-3.10	0.80	-4.41	-1.79	-0.17	1.06	-1.91	1.58	20.82	1.12	18.98	22.66	0.20	0.20	0.20	0.20
N	1.00	7	-3.07	0.89	-4.52	-1.61	-0.07	1.13	-1.92	1.78	20.72	1.14	18.85	22.60	0.14	0.14	0.14	0.14

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	-5.67	1.02	-7.34	-4.00	7.70	0.82	6.36	9.05	1.22	1.80	22.58	0.0	0.0	0.0	0.0	0.0	
O	0.10	7	-5.83	1.00	-7.47	-4.19	7.57	0.79	6.28	8.87	20.54	1.22	18.51	22.52	0.22	0.22	0.22	0.22
F	0.20	7	-5.97	1.03	-7.65	-4.28	7.56	0.76	6.09	9.03	20.44	1.24	18.29	22.53	0.17	0.17	0.17	0.17
O	0.30	7	-5.95	1.05	-7.65	-4.23	7.59	0.99	5.96	9.22	20.45	1.24	18.33	22.57	0.05	0.05	0.05	0.05
R	0.40	7	-8.83	1.09	-7.65	-7.65	7.65	1.06	5.91	9.40	20.55	1.32	18.39	22.71	0.17	0.17	0.17	0.17
E	0.50	7	-5.61	1.05	-7.33	-3.89	7.67	1.04	5.96	9.39	20.64	1.35	18.42	22.85	0.23	0.23	0.23	0.23
W	0.60	7	-5.42	0.97	-7.02	-3.83	7.50	0.96	5.93	9.07	20.74	1.38	18.48	23.00	0.28	0.28	0.28	0.28
A	0.60	7	-5.30	0.92	-6.80	-3.79	7.39	0.94	5.85	8.94	20.87	1.38	18.60	23.13	0.21	0.21	0.21	0.21
R	0.70	7	-5.06	0.94	-6.60	-3.51	7.40	0.95	5.85	8.96	20.97	1.39	18.74	23.20	0.26	0.26	0.26	0.26
D	0.80	7	-4.85	0.96	-6.43	-3.28	7.53	0.95	5.96	9.10	21.01	1.35	18.80	23.22	0.24	0.24	0.24	0.24
O	0.90	7	-4.68	0.97	-6.27	-3.09	7.64	0.99	6.02	9.27	21.07	1.36	18.84	23.29	0.22	0.22	0.22	0.22
N	1.00	7	-4.00	0.97	-6.27	-3.09	7.64	0.99	6.02	9.27	21.07	1.36	18.84	23.29	0.0	0.0	0.0	0.0
T	0.50	7	-4.68	0.97	-6.52	-3.20	7.49	0.92	5.99	9.00	21.04	1.34	18.84	23.24	0.23	0.23	0.23	0.23
U	0.60	7	-5.13	1.08	-6.89	-3.36	7.35	0.91	5.86	8.85	21.00	1.33	18.81	23.18	0.54	0.54	0.54	0.54
R	0.30	7	-5.38	1.17	-7.31	-3.45	7.34	0.68	5.90	8.78	20.94	1.33	18.75	23.12	0.26	0.26	0.26	0.26
E	0.40	7	-5.56	1.31	-7.70	-3.41	7.34	0.85	5.96	8.73	20.83	1.29	18.72	22.95	0.21	0.21	0.21	0.21
F	0.50	7	-5.63	1.45	-8.02	-3.25	7.32	0.80	6.00	8.63	20.84	1.27	18.75	22.91	0.08	0.08	0.08	0.08
U	0.60	7	-5.60	1.40	-7.89	-3.30	7.42	0.76	6.17	8.67	20.84	1.25	18.79	22.90	0.11	0.11	0.11	0.11
R	0.70	7	-5.45	1.38	-7.71	-3.18	7.41	0.71	6.23	8.58	20.80	1.23	18.78	22.83	0.16	0.16	0.16	0.16
N	0.80	7	-5.46	1.28	-7.57	-3.35	7.41	0.68	6.31	8.72	20.73	1.18	18.81	22.66	0.07	0.07	0.07	0.07
O	0.90	7	-5.57	1.14	-7.44	-3.69	7.54	0.71	6.38	8.69	20.65	1.18	18.73	22.58	0.18	0.18	0.18	0.18
T	1.00	7	-5.67	1.02	-7.70	-3.00	7.70	0.82	6.36	9.05	20.59	1.22	18.60	22.58	0.21	0.21	0.21	0.21

LANDMARK - LT GRIP CENTER (17)

TIME T	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	7	16.81	0.62	15.80	17.2	10.38	0.61	9.38	11.39	13.01	0.43	12.31	13.71	12.31	0.43	12.31	13.71	12.31
F	7	16.81	0.43	15.90	17.32	10.12	0.59	9.15	11.10	14.78	0.72	13.60	15.96	11.80	0.0	1.80	0.0	1.80
F	0.20	7	16.36	0.56	15.43	17.28	9.81	0.65	8.74	10.87	16.74	0.79	15.43	18.04	2.00	3.80	2.00	3.80
O	0.30	7	16.40	0.58	15.45	17.36	9.49	0.68	8.38	10.61	16.79	0.68	17.67	19.91	2.08	5.88	2.08	5.88
O	0.40	7	16.65	0.85	15.26	18.05	9.27	0.73	8.07	10.48	20.77	0.56	19.86	21.68	2.00	7.68	2.00	7.68
W	0.50	7	17.20	0.86	15.79	18.61	9.28	0.60	8.29	10.26	22.19	0.58	21.24	23.14	1.53	9.41	1.53	9.41
A	0.60	7	17.94	0.84	16.56	19.32	9.23	0.59	8.27	10.20	22.94	0.43	22.21	23.62	1.03	10.44	1.03	10.44
R	0.70	7	18.73	0.73	17.53	19.92	9.38	0.71	8.22	10.53	23.24	0.52	22.39	24.10	0.87	11.31	0.87	11.31
D	0.80	7	19.44	0.67	18.34	20.54	9.55	0.74	8.33	10.78	23.32	0.47	22.55	24.10	0.74	12.05	0.74	12.05
O	0.90	7	19.93	0.77	18.66	21.20	9.76	0.71	8.60	10.92	23.12	0.47	22.35	23.89	0.57	12.62	0.57	12.62
1.00	7	20.48	0.85	19.09	21.88	10.01	0.77	8.75	11.27	22.94	0.49	22.14	23.74	0.63	13.25	0.63	13.25	
0.0	7	20.48	0.85	19.09	21.88	10.01	0.77	8.75	11.27	22.94	0.49	22.14	23.74	0.0	0.0	0.0	0.0	
0.10	7	19.42	0.72	18.24	20.60	9.83	0.80	8.52	11.13	22.07	0.96	20.50	23.65	1.38	1.38	1.38	1.38	
O.20	7	18.25	0.86	16.83	19.67	9.53	0.62	8.18	10.88	21.36	1.44	18.70	21.58	0.0	0.0	0.0	0.0	
R	0.30	7	17.38	0.70	16.23	18.53	9.38	0.54	8.49	10.26	19.31	1.41	17.01	21.62	1.95	4.92	1.95	4.92
E	0.40	7	17.03	0.79	15.73	18.33	9.54	0.62	8.53	10.55	18.04	1.39	15.75	20.32	1.34	6.25	1.34	6.25
T	0.50	7	16.52	0.59	15.56	17.49	9.80	0.57	8.86	10.74	15.49	2.79	10.92	20.07	2.61	8.86	2.61	8.86
T	0.60	7	16.60	0.64	15.56	17.65	9.81	0.68	8.70	12.92	15.15	1.02	13.47	16.82	0.36	9.22	0.36	9.22
U	0.70	7	16.74	0.73	15.54	17.95	10.00	0.66	8.91	11.08	14.44	0.44	13.07	15.81	0.75	9.95	0.75	9.95
R	0.80	7	16.91	0.67	15.82	18.00	10.15	0.53	9.29	11.02	13.90	0.72	12.72	15.08	0.59	10.55	0.59	10.55
N	0.90	7	16.90	0.61	15.89	17.90	10.25	0.54	9.36	11.14	13.47	0.52	12.62	14.31	0.44	10.99	0.44	10.99
1.00	7	16.81	0.62	15.80	17.82	10.38	0.61	9.38	11.39	13.01	0.43	12.31	13.71	0.49	11.48	0.49	11.48	

LANDMARK - LT TROCHANTER (19)

TIME T	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	7	3.01	0.62	1.99	4.04	6.65	0.58	5.04	8.26	3.49	0.56	2.57	4.42	0.15	0.15	0.15	0.15	
F	0.20	7	3.15	0.60	2.17	4.14	6.70	0.80	5.39	8.00	3.55	0.51	2.66	4.34	0.12	0.12	0.12	0.12
O	0.30	7	3.20	0.76	1.95	4.45	6.81	0.73	5.61	8.01	3.52	0.46	2.77	4.28	0.09	0.09	0.09	0.09
R	0.40	7	3.16	0.91	1.66	4.66	6.88	0.72	5.70	8.07	3.49	0.44	2.78	4.14	0.14	0.14	0.14	0.14
E	0.50	7	3.26	0.74	2.05	4.47	6.79	0.67	5.69	7.83	3.45	0.42	2.77	4.14	0.06	0.06	0.06	0.06
W	0.60	7	3.32	0.66	2.24	4.40	6.79	0.71	5.63	7.95	3.46	0.40	2.80	4.13	0.06	0.06	0.06	0.06
A	0.70	7	3.31	0.59	2.35	4.27	6.78	0.68	5.67	7.89	4.54	2.87	0.17	9.26	1.08	1.08	1.08	1.08
R	0.80	7	3.21	0.57	2.28	4.15	6.77	0.72	5.60	7.95	5.52	5.63	-3.60	14.85	1.09	2.72	1.09	2.72
D	0.90	7	3.15	0.64	2.10	4.20	6.76	0.76	5.51	7.82	5.62	5.60	-3.57	14.80	0.06	2.78	0.06	2.78
1.00	7	3.18	0.76	1.94	4.43	6.81	0.80	5.50	8.12	5.53	5.52	-0.07	9.13	1.09	3.87	1.09	3.87	
T	0.74	3.22	0.90	1.74	4.69	6.84	0.84	5.46	8.22	3.47	0.45	2.73	4.20	0.0	0.0	0.0	0.0	
0.0	7	3.22	0.90	1.74	4.39	6.72	0.69	5.58	7.66	3.55	0.48	2.76	4.34	0.16	0.16	0.16	0.16	
U	0.20	7	3.10	0.71	1.93	4.26	6.67	0.60	5.68	7.66	3.58	0.50	2.77	4.40	0.06	0.06	0.06	0.06
R	0.30	7	3.07	0.71	1.90	4.24	6.72	0.65	5.65	7.60	3.44	0.56	2.53	4.36	0.15	0.15	0.15	0.15
E	0.40	7	2.99	0.83	1.54	4.26	6.85	0.92	5.34	8.36	2.78	2.08	-0.62	6.19	0.69	1.05	0.69	1.05
T	0.50	7	2.84	0.81	1.51	4.16	6.71	0.59	5.10	8.31	3.09	1.37	0.85	5.33	0.35	1.43	0.35	1.43
U	0.60	7	2.93	0.70	1.79	4.08	6.66	0.92	5.16	5.58	3.58	0.52	4.43	5.00	1.93	0.50	1.93	0.50
R	0.70	7	3.06	0.59	2.09	4.04	6.75	0.77	5.49	8.02	3.54	0.49	2.73	4.35	0.17	2.10	0.17	2.10
N	0.80	7	3.03	0.75	1.81	4.26	6.78	0.64	5.73	7.82	3.54	0.47	2.73	4.29	0.05	2.15	0.05	2.15
O	0.90	7	2.98	0.75	1.75	4.21	6.69	0.77	5.43	7.55	3.49	0.51	2.66	4.32	0.10	2.25	0.10	2.25
1.00	7	3.01	0.62	1.99	4.04	6.65	0.98	5.04	8.26	3.49	0.56	2.57	4.42	0.05	2.30	0.05	2.30	

LANDMARK - LT KNEE TOP

(21)

TIME	SAMPLE T SIZE, N	(- - - - X - CO-ORDINATE - - - -)			(- - - - Y - CO-ORDINATE - - - -)			(- - - - Z - CO-ORDINATE - - - -)			DISTANCE MOVED			
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	6	19.09	0.61	18.09	20.10	6.07	1.55	3.54	8.61	11.59	1.21	9.59	13.58	
F	6	19.13	0.97	17.53	20.72	5.93	1.42	3.61	8.25	11.58	1.17	9.67	13.50	
0.20	7	18.99	0.95	17.43	20.54	5.80	1.29	3.82	7.79	11.36	1.21	9.37	13.35	
0.30	7	18.99	0.84	17.60	20.37	5.88	1.29	3.60	8.16	11.38	1.22	9.37	13.38	
R	40	7	18.97	0.85	17.57	20.37	5.87	1.46	3.48	8.27	11.37	1.24	9.34	13.41
W	50	7	18.98	0.78	17.69	20.26	5.89	1.39	3.61	8.17	11.35	1.26	9.28	13.41
A	60	7	18.93	0.76	17.68	20.19	5.78	1.44	3.43	8.14	11.33	1.25	9.27	13.38
R	70	7	18.86	0.86	17.45	20.28	5.71	1.51	3.24	8.19	11.36	1.17	9.44	13.28
D	80	7	18.88	0.89	17.42	20.34	5.80	1.57	3.24	8.37	11.41	1.16	9.50	13.31
N	90	7	18.91	0.85	17.52	20.30	5.84	1.56	3.27	8.40	11.40	1.16	9.50	13.30
1.00	7	18.95	0.94	17.40	20.49	5.75	1.53	3.23	8.26	11.62	1.17	9.50	13.34	
0.0	7	18.95	0.94	17.40	20.49	5.75	1.53	3.23	8.26	11.62	1.17	9.50	13.34	
0.10	6	19.07	0.96	17.50	20.64	5.91	1.46	3.52	8.31	11.54	1.17	9.50	13.34	
R	30	6	19.08	0.96	17.51	20.65	5.96	1.35	3.75	8.17	11.54	1.03	9.95	13.33
E	40	6	19.06	0.92	17.56	20.56	6.03	1.41	3.72	8.34	11.49	1.05	9.91	13.36
T	50	6	18.80	0.84	17.42	20.18	6.10	1.35	3.88	8.31	10.74	1.03	9.96	9.92
U	60	6	18.78	1.02	17.10	20.45	5.96	1.24	3.93	8.00	11.03	1.04	7.39	14.04
R	70	6	18.88	1.13	17.03	20.74	5.92	1.47	3.51	8.34	11.58	1.05	8.85	13.22
N	80	6	18.82	0.97	17.23	20.42	5.85	1.55	3.31	8.38	11.82	1.05	9.86	13.30
0.90	6	18.85	0.87	17.42	20.27	5.80	1.55	3.26	8.34	11.54	1.03	9.89	13.34	
1.00	6	18.97	0.82	17.63	20.32	5.89	1.54	3.36	8.43	11.53	1.10	9.85	13.22	
0.0	6	19.09	0.61	18.09	20.10	6.07	1.55	3.54	8.61	11.59	1.21	9.72	13.33	
1.00	7	19.09	0.61	18.09	20.10	6.07	1.55	3.54	8.61	11.59	1.21	9.59	13.58	

LANDMARK - LT SHOULDER CENTER

(23)

TIME	SAMPLE T SIZE, N	(- - - - X - CO-ORDINATE - - - -)			(- - - - Y - CO-ORDINATE - - - -)			(- - - - Z - CO-ORDINATE - - - -)			DISTANCE MOVED			
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	7	-3.66	0.89	-5.11	-2.20	8.20	1.33	6.01	10.39	18.58	1.08	16.81	20.36	
F	7	-3.83	0.75	-5.12	-2.65	7.92	1.20	5.95	9.86	18.73	1.03	17.04	20.41	
0.20	7	-4.02	0.66	-5.11	-2.93	7.82	1.34	5.62	10.02	18.79	1.17	16.88	20.71	
O	30	7	-3.96	0.62	-4.98	-2.94	7.91	1.40	5.62	10.21	18.91	1.13	17.06	20.76
R	40	7	-3.84	0.60	-4.83	-2.86	7.96	1.19	6.01	9.91	19.04	1.12	17.21	20.88
W	50	7	-3.74	0.53	-4.69	-2.79	8.05	1.11	6.22	9.87	19.22	1.14	17.33	21.06
A	60	7	-3.62	0.57	-4.57	-2.69	7.90	1.09	6.12	9.69	19.38	1.11	17.56	21.19
R	70	7	-3.37	0.58	-4.33	-2.42	7.95	1.20	5.99	9.92	19.49	1.11	17.68	21.31
D	80	7	-3.12	0.59	-4.09	-2.16	7.99	1.27	5.91	10.06	19.54	1.14	17.78	21.51
N	90	7	-2.20	0.64	-3.94	-1.86	7.97	1.28	5.87	10.06	19.73	1.10	17.92	21.23
1.00	7	-2.69	0.75	-3.73	-1.45	7.99	1.33	5.81	10.17	19.73	1.02	18.06	21.40	
0.0	7	-2.69	0.75	-3.93	-1.45	7.99	1.33	5.81	10.17	19.73	1.02	18.06	21.40	
0.10	7	-2.85	0.59	-3.83	-1.88	8.06	1.21	6.08	10.04	19.63	1.02	17.95	21.31	
R	30	7	-3.45	0.93	-4.97	-1.92	8.11	1.21	6.16	10.11	19.53	1.05	17.80	21.26
E	40	7	-3.53	1.12	-5.36	-1.69	8.03	1.28	5.94	10.13	19.21	1.03	17.68	21.05
T	50	7	-3.57	1.26	-5.64	-1.50	7.98	1.21	5.89	10.13	19.21	1.00	17.58	20.84
U	60	7	-3.59	1.24	-5.62	-1.56	7.94	1.11	6.12	9.76	18.96	0.95	17.53	20.64
R	70	7	-3.53	1.12	-5.37	-1.69	8.10	1.14	6.24	9.96	18.86	0.88	17.52	20.40
N	80	7	-3.50	0.85	-4.89	-2.10	8.18	1.11	6.36	10.00	18.78	1.04	17.09	20.48
0.90	7	-2.56	0.79	-4.86	-2.26	8.16	1.17	6.23	10.08	18.68	1.09	16.89	20.47	
1.00	7	-3.66	0.89	-5.11	-2.20	8.20	1.33	6.01	10.39	18.58	1.08	16.81	20.36	

LANDMARK - LT ELBOW CENTER (25)

TIME	SAMPLE SIZE,N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE							
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
T	7	3.67	0.43	2.97	4.37	12.47	1.12	10.64	14.30	12.93	0.82	11.58	14.27	11.58	0.82	12.93	14.63	11.46	
0.0	7	3.75	0.42	3.06	4.44	12.24	0.82	10.90	13.59	13.59	0.96	11.51	14.27	11.51	0.96	13.59	14.53	11.46	
F	0.20	7	3.80	0.64	2.75	4.86	12.11	0.65	11.04	13.16	13.31	1.11	11.49	14.27	11.49	1.11	13.16	15.13	11.46
O	0.30	7	4.33	0.46	3.57	5.09	12.17	0.78	10.89	13.45	14.16	0.98	12.55	15.76	12.55	0.98	13.45	15.76	12.55
R	0.40	7	4.98	0.38	4.35	5.61	12.22	0.51	10.73	13.71	15.45	0.96	13.57	16.72	13.57	0.96	13.71	16.72	13.57
W	0.50	7	5.49	0.34	4.91	6.04	12.16	0.85	10.78	13.55	16.24	1.01	14.71	17.70	14.71	1.01	13.55	17.70	14.71
A	0.60	7	6.07	0.44	5.35	6.78	11.84	0.85	10.44	13.24	17.23	0.80	15.91	18.55	15.91	0.80	13.24	17.23	15.91
R	0.70	7	6.52	0.47	5.75	7.29	11.51	0.53	9.98	13.04	17.97	0.83	16.62	19.33	16.62	0.83	13.04	17.97	16.62
D	0.80	7	6.91	0.41	6.24	7.58	11.28	1.01	9.61	12.94	18.53	0.76	17.29	19.78	17.29	0.76	12.94	19.78	17.29
O	0.90	7	7.22	0.49	6.44	8.03	11.11	1.02	9.43	12.79	18.74	0.77	17.48	20.00	17.48	0.77	12.79	18.74	17.48
1.00	7	7.46	0.59	6.49	8.43	10.85	1.01	9.19	12.51	16.90	0.83	17.54	20.25	17.54	0.83	12.51	16.90	17.54	
0.0	7	7.46	0.59	6.49	8.43	10.85	1.01	9.19	12.51	16.90	0.83	17.54	20.25	17.54	0.83	12.51	16.90	17.54	
0.10	7	6.70	0.54	5.82	7.59	11.53	0.53	9.99	13.06	17.75	1.00	16.10	19.39	16.10	1.00	13.06	17.75	16.10	
0.20	7	5.98	0.76	4.61	7.12	12.45	0.91	10.63	13.61	16.44	1.28	18.59	21.20	18.59	1.28	13.61	16.44	18.59	
O	0.30	7	5.16	0.83	3.80	6.52	12.45	0.90	10.97	13.94	15.27	1.24	13.24	17.30	13.24	1.24	10.97	13.94	13.24
E	0.40	7	4.55	0.94	3.01	6.10	12.69	0.97	11.09	14.28	14.44	1.25	12.38	16.49	12.38	1.25	11.09	14.28	12.38
T	0.50	7	4.13	0.80	2.82	5.44	12.60	0.96	11.03	14.17	14.31	1.21	12.16	15.85	12.16	1.21	11.03	14.17	12.16
U	0.60	7	3.79	0.64	2.75	4.84	12.55	0.96	10.97	14.17	14.31	0.98	12.12	15.36	12.12	0.98	10.97	14.31	12.12
R	0.70	7	3.51	0.99	1.89	5.13	12.54	0.53	11.01	14.07	13.51	0.92	12.00	15.02	12.00	0.92	11.01	14.07	13.51
N	0.80	7	3.67	0.44	2.94	4.40	12.61	1.00	10.96	14.25	13.34	0.82	12.00	14.68	12.00	0.82	10.96	14.25	13.34
O	0.90	7	3.56	0.54	2.67	4.54	12.54	1.06	10.81	14.27	13.07	0.80	11.76	14.37	11.76	0.80	10.81	14.27	13.07
1.00	7	3.67	0.43	2.97	4.37	12.47	1.12	10.64	14.30	12.93	0.82	11.58	14.27	11.58	0.82	10.64	14.30	12.93	

LANDMARK - LT WRIST CENTER (27)

TIME	SAMPLE SIZE,N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE							
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT		
T	5	13.47	0.97	11.88	15.07	11.09	0.46	10.33	11.84	12.75	0.60	11.77	13.73	11.77	0.60	11.84	12.75	11.77	
0.0	5	13.47	1.01	11.81	15.13	10.63	0.52	9.78	11.48	14.04	1.28	11.95	16.14	11.95	1.28	10.63	11.48	14.04	
F	0.20	6	13.18	1.36	10.96	15.40	10.49	0.54	9.61	11.38	15.19	0.90	13.72	16.62	13.72	0.90	10.96	11.38	15.19
O	0.30	6	13.75	1.33	11.57	15.94	10.23	1.04	8.53	11.94	17.30	2.02	13.98	20.21	13.98	2.02	11.57	11.94	17.30
R	0.40	6	14.27	1.33	12.09	16.46	10.28	0.94	8.74	11.83	18.10	0.50	17.28	18.92	17.28	0.50	12.09	16.46	18.10
W	0.50	7	15.02	0.96	13.44	16.59	10.43	0.59	9.46	11.40	19.25	1.02	17.57	20.92	17.57	1.02	13.44	16.59	19.25
A	0.60	6	15.78	1.03	14.09	17.47	10.44	0.42	9.75	11.14	20.45	0.47	19.68	21.23	19.68	0.47	14.09	17.47	20.45
R	0.70	6	16.27	1.08	14.49	18.05	10.56	0.31	10.05	11.66	21.24	0.36	20.41	21.60	20.41	0.36	14.49	18.05	21.24
D	0.80	6	16.66	1.06	14.93	18.49	10.76	0.42	10.07	11.45	21.46	0.51	20.51	21.60	20.51	0.51	14.93	18.49	21.46
O	0.90	6	16.94	1.01	15.28	18.61	10.83	0.51	9.99	11.67	21.53	1.04	19.93	23.33	19.93	1.04	15.28	18.61	21.53
1.00	6	17.09	0.91	15.59	18.58	10.94	0.57	10.01	11.87	21.25	0.69	20.12	22.38	20.12	0.69	15.59	18.58	21.25	
0.0	6	17.09	0.91	15.59	18.58	10.94	0.57	10.01	11.87	21.25	0.69	20.12	22.38	20.12	0.69	15.59	18.58	21.25	
0.10	5	16.49	0.80	15.16	17.80	11.02	0.59	10.05	12.03	20.17	0.81	18.84	21.50	18.84	0.81	15.16	17.80	20.17	
0.20	5	15.90	0.78	14.63	17.17	10.87	0.56	9.95	11.79	19.26	0.75	18.03	20.50	18.03	0.75	14.63	17.17	19.26	
R	0.30	5	14.78	1.11	12.95	16.61	10.65	0.62	9.64	11.67	17.64	1.24	15.60	19.68	15.60	1.24	12.95	16.61	17.64
E	0.40	5	14.10	1.35	11.88	16.32	10.81	0.97	9.22	12.41	15.96	2.86	11.27	20.65	11.27	2.86	11.88	16.32	15.96
T	0.50	5	13.35	1.03	11.65	15.04	10.74	0.94	9.19	12.28	14.67	2.50	10.37	18.57	10.37	2.50	11.65	15.04	14.67
U	0.60	5	13.37	1.10	11.57	15.17	10.71	0.78	9.44	11.99	14.78	0.76	13.53	16.04	13.53	0.76	11.57	15.17	14.78
R	0.70	5	13.44	1.23	11.43	15.45	10.68	0.76	9.43	11.93	14.78	0.75	13.05	16.51	13.05	0.75	11.43	15.45	14.78
N	0.80	5	13.29	1.00	11.65	14.94	10.81	0.97	9.22	12.40	13.59	0.70	12.44	14.73	12.44	0.70	11.65	14.94	13.59
O	0.90	5	13.38	0.94	11.84	14.92	10.95	0.74	9.74	12.16	13.13	0.71	11.97	14.29	11.97	0.71	11.84	14.92	13.13
1.00	5	13.47	0.97	11.88	15.07	11.07	0.46	10.33	11.84	12.75	0.60	11.77	13.73	11.77	0.60	11.88	15.07	12.75	

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +18.0, +10.0, +12.4 TO PANEL CONTROLLER AT +23.0, +10.0, +23.0 AND RETURNS. RIGHT HAND REMAINS AT SIDE-ARM CONTROLLER AT +13.0, -13.0, +4.8.

MOTION NUMBER - 22240
BACK ANGLE - 30

SUB-MOVEMENT	TIME DATA		RANGE
	MEAN	STD DEV	
LEFT FWD	0.46	0.14	0.30 TO 0.60 SECS.
LEFT REV	0.39	0.13	0.20 TO 0.60 SECS.

LANDMARK - NASION

(1)

TIME	SAMPLE SIZE, N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-0.16	1.05	-1.89	1.57	0.12	1.09	-1.66	1.91	27.56	1.32	25.43	29.74	0.0	0.0	0.0	0.0
0.10	7	-0.10	1.34	-2.30	2.10*	-0.06	0.65	-1.12	1.01	27.72	1.16	25.82	29.63	0.24	0.24	0.24	0.24
F 0.20	7	-0.16	1.54	-2.68	2.36	-0.09	0.92	-1.60	1.43	27.83	1.09	26.04	29.61	0.12	0.36	0.12	0.36
O 0.30	7	-0.38	1.22	-2.39	1.62	0.20	0.76	-1.05	1.44	27.84	1.17	25.91	29.76	0.36	0.72	0.36	0.72
R 0.40	7	-0.27	1.13	-2.13	1.58	0.33	0.88	-1.12	1.78	27.76	1.25	25.73	29.83	0.18	0.90	0.18	0.90
E 0.50	7	-0.05	1.07	-1.80	1.70	0.37	0.93	-1.15	1.90	27.70	1.31	25.55	29.85	0.25	1.15	0.25	1.15
A 0.60	7	-0.15	0.98	-1.75	1.45	0.36	0.91	-1.12	1.85	27.73	1.26	25.64	29.77	0.10	1.25	0.10	1.25
R 0.70	7	-0.25	0.95	-1.81	1.31	0.34	0.93	-1.18	1.86	27.72	1.23	25.70	29.74	0.11	1.36	0.11	1.36
D 0.80	7	-0.32	1.03	-2.02	1.37	0.35	0.96	-1.22	1.92	27.76	1.26	25.70	29.82	0.08	1.44	0.08	1.44
N 0.90	7	-0.32	1.04	-2.03	1.39	0.41	0.97	-1.17	2.00	27.75	1.28	25.66	29.85	0.06	1.50	0.06	1.50
1.00	7	-0.30	1.02	-1.97	1.36	0.47	0.99	-1.15	2.10	27.72	1.30	25.59	29.86	0.07	1.57	0.07	1.57
0.0	7	-0.30	1.02	-1.97	1.36	0.47	0.99	-1.15	2.10	27.72	1.30	25.59	29.86	0.0	0.0	0.0	0.0
0.10	7	-0.22	1.09	-2.00	1.57	0.24	1.07	-1.51	2.00	27.74	1.24	25.68	29.74	0.25	0.25	0.25	0.25
0.20	7	-0.14	1.18	-2.07	1.80	0.06	1.16	-1.85	1.97	27.68	1.21	25.69	29.67	0.20	0.45	0.20	0.45
R 0.30	7	-0.16	1.18	-2.09	1.77	-0.04	1.14	-1.91	1.84	27.55	1.26	25.58	29.72	0.11	0.56	0.11	0.56
O 0.40	7	-0.17	1.16	-2.07	1.73	-0.05	1.15	-1.93	1.73	27.55	1.23	25.64	29.66	0.11	0.67	0.11	0.67
E 0.50	7	-0.14	1.19	-2.09	1.80	-0.23	1.12	-2.07	1.61	27.64	1.14	25.77	29.50	0.08	0.75	0.08	0.75
T 0.50	7	-0.14	1.19	-2.09	1.80	-0.23	1.12	-2.07	1.61	27.64	1.14	25.77	29.50	0.04	0.79	0.04	0.79
U 0.60	7	-0.13	1.22	-2.13	1.86	-0.19	1.07	-1.94	1.57	27.63	1.15	25.75	29.52	0.07	0.86	0.07	0.86
R 0.70	7	-0.15	1.18	-2.08	1.79	-0.13	1.05	-1.85	1.59	27.57	1.18	25.73	29.61	0.07	0.95	0.07	0.95
N 0.80	7	-0.15	1.11	-1.96	1.67	-0.05	1.07	-1.81	1.71	27.70	1.21	25.72	29.68	0.08	1.05	0.08	1.05
O 0.90	7	-0.15	1.07	-1.90	1.60	0.04	1.08	-1.73	1.80	27.65	1.25	25.60	29.69	0.10	1.15	0.10	1.15
1.00	7	-0.16	1.05	-1.89	1.57	0.12	1.09	-1.66	1.91	27.58	1.32	25.43	29.74	0.11	1.15	0.11	1.15

LANDMARK - CERVICALE

(2)

TIME	SAMPLE SIZE, N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-6.80	1.49	-9.25	-6.35	-1.24	1.32	0.92	21.26	1.23	19.24	23.28	0.0	0.0	0.0	0.0	
0.10	7	-6.84	1.46	-9.23	-4.45	-1.15	1.35	3.37	1.07	21.23	1.29	19.11	23.34	0.10	0.10	0.10	0.10
F 0.20	7	-6.92	1.43	-9.26	-4.58	-1.10	1.38	3.36	1.16	21.21	1.31	19.07	23.38	0.10	0.20	0.10	0.20
O 0.30	7	-7.08	1.46	-9.47	-4.69	-1.13	1.33	3.32	1.05	21.26	1.26	19.22	23.35	0.17	0.37	0.17	0.37
R 0.40	7	-7.07	1.42	-9.39	-4.75	-1.05	1.31	3.20	1.09	21.28	1.28	19.17	23.38	0.08	0.45	0.08	0.45
H 0.50	7	-6.99	1.31	-9.14	-4.84	-0.92	1.31	3.06	1.23	21.44	1.34	19.04	23.43	0.16	0.61	0.16	0.61
A U.60	7	-6.91	1.34	-9.11	-4.71	-0.90	1.25	2.95	1.14	21.26	1.35	19.04	23.48	0.09	0.70	0.09	0.70
R O.70	7	-6.79	1.36	-9.03	-4.56	-1.21	2.93	1.04	21.27	1.36	19.04	23.49	0.12	0.82	0.12	0.82	
D 0.80	7	-6.64	1.34	-8.83	-4.44	-1.04	1.24	3.07	0.99	21.24	1.35	19.03	23.45	0.18	1.00	0.18	1.00
O 0.90	7	-6.57	1.28	-8.67	-4.48	-0.93	1.24	2.97	1.10	21.24	1.33	19.05	23.43	0.12	1.13	0.12	1.13
1.00	7	-6.54	1.21	-8.53	-4.55	-0.76	1.23	2.78	1.26	21.25	1.31	19.09	23.41	0.17	1.30	0.17	1.30
0.0	7	-6.54	1.21	-8.53	-4.55	-0.76	1.23	2.78	1.26	21.25	1.31	19.09	23.41	0.0	0.0	0.0	0.0
0.10	7	-6.56	1.24	-8.52	-4.52	-0.92	1.17	2.84	0.99	21.34	1.29	19.19	23.43	0.17	0.17	0.17	0.17
F 0.20	7	-6.58	1.28	-8.68	-4.48	-1.06	1.16	2.96	0.85	21.35	1.31	19.20	23.50	0.14	0.31	0.14	0.31
R 0.30	7	-6.61	1.31	-8.76	-4.45	-1.14	1.26	3.21	0.92	21.34	1.32	19.15	23.47	0.10	0.41	0.10	0.41
E 0.40	7	-6.66	1.31	-8.80	-4.51	-1.19	1.26	3.26	0.89	21.26	1.29	19.14	23.38	0.08	0.49	0.08	0.49
T 0.50	7	-6.71	1.28	-8.82	-4.61	-1.21	1.22	3.21	0.80	21.22	1.27	19.14	23.29	0.08	0.57	0.08	0.57
U 0.60	7	-6.77	1.36	-9.00	-4.55	-1.16	1.18	3.11	0.78	21.22	1.27	19.12	23.29	0.08	0.64	0.08	0.64
R 0.70	7	-6.78	1.37	-9.03	-4.54	-1.15	1.17	3.07	0.78	21.23	1.28	19.13	23.33	0.03	0.68	0.03	0.68
N 0.80	7	-6.69	1.24	-8.73	-4.66	-1.17	1.22	3.17	0.82	21.30	1.23	19.29	23.31	0.11	0.79	0.11	0.79
O 0.90	7	-6.73	1.31	-8.88	-4.57	-1.20	1.27	3.28	0.87	21.29	1.21	19.31	23.27	0.04	0.83	0.04	0.83
1.00	7	-6.80	1.49	-9.25	-4.35	-1.24	3.23	0.92	21.26	1.23	19.24	23.28	0.09	0.92	0.09	0.92	

LANDMARK - SUPRASENTRAL (3)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					DISTANCE MOVED
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-3.37	1.15	-5.25	-1.06	1.27	3.14	1.06	20.70	0.90	19.22	0.02	22.18	0.0	0.0	0.0	0.0
0.10	T	-3.20	1.14	-5.06	-1.33	0.92	3.12	1.29	20.63	0.85	19.24	0.02	22.02	0.23	0.23	0.23	0.23
F	O*20	-3.13	1.28	-5.23	-1.03	0.81	3.13	1.52	20.58	0.84	19.20	0.02	21.96	0.14	0.37	0.37	0.37
O	O*30	-3.22	1.30	-5.35	-1.09	0.77	3.13	1.59	20.56	0.84	19.18	0.02	21.94	0.10	0.47	0.47	0.47
R	O*40	-3.17	1.26	-5.23	-1.11	0.70	3.00	1.61	20.56	0.87	19.14	0.02	21.98	0.09	0.56	0.56	0.56
W	W*50	-3.08	1.19	-5.02	-1.13	0.61	3.06	1.63	20.50	0.91	19.07	0.02	22.05	0.13	0.69	0.69	0.69
A	A*60	-3.01	1.11	-4.82	-1.19	0.49	3.35	2.69	20.66	0.88	19.23	0.02	22.10	0.17	0.86	0.86	0.86
R	O*70	-3.00	1.03	-4.70	-1.31	0.44	3.06	2.78	20.77	0.86	19.35	0.02	22.18	0.12	0.98	0.98	0.98
D	O*80	-3.18	1.10	-4.99	-1.37	0.52	3.39	2.40	20.80	0.85	19.47	0.02	22.25	0.21	1.19	1.19	1.19
O	O*90	-3.16	1.10	-4.97	-1.35	0.43	3.43	2.79	20.91	0.84	19.52	0.02	22.29	0.10	1.29	1.29	1.29
1.00	T	-3.03	1.08	-4.80	-1.26	0.27	1.48	2.69	20.55	0.85	19.55	0.02	22.35	0.21	1.50	1.50	1.50
0.0	T	-3.03	1.08	-4.80	-1.26	0.27	1.48	2.69	20.95	0.85	19.55	0.02	22.35	0.0	0.0	0.0	0.0
0.10	T	-3.10	1.15	-5.01	-1.20	0.51	3.33	2.68	20.94	0.78	19.66	0.02	22.22	0.25	0.25	0.25	0.25
O*20	T	-3.16	1.25	-5.21	-1.12	0.72	3.23	2.74	20.90	0.78	19.62	0.02	22.19	0.22	0.47	0.47	0.47
R	O*30	-3.16	1.32	-5.33	-0.99	0.84	3.24	2.87	20.82	0.93	19.30	0.02	22.33	0.15	0.62	0.62	0.62
E	O*40	-3.07	1.39	-5.35	-0.78	0.87	3.30	2.26	20.74	0.97	19.15	0.02	22.33	0.12	0.74	0.74	0.74
T	O*50	-2.97	1.42	-5.31	-0.64	0.85	3.40	2.67	20.67	0.96	19.09	0.02	22.25	0.12	0.86	0.86	0.86
U	O*60	-2.91	1.39	-5.40	-0.86	0.91	3.36	3.15	20.64	0.99	19.00	0.02	22.23	0.18	1.03	1.03	1.03
R	O*70	-3.28	1.32	-5.44	-1.11	0.97	3.33	2.22	20.61	1.00	18.96	0.02	22.25	0.16	1.20	1.20	1.20
N	O*80	-3.32	1.21	-5.31	-1.33	0.96	3.35	2.17	20.65	0.96	19.09	0.02	22.24	0.07	1.27	1.27	1.27
O	O*90	-3.33	1.16	-5.24	-1.02	1.00	3.32	3.16	20.69	0.92	19.17	0.02	22.20	0.04	1.31	1.31	1.31
1.00	T	-3.37	1.15	-5.25	-1.06	1.02	3.14	2.71	20.70	0.90	19.22	0.02	22.18	0.08	1.39	1.39	1.39

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					DISTANCE MOVED
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-5.60	1.30	-7.74	-3.46	7.38	0.73	6.18	8.57	20.25	1.31	18.10	0.02	22.40	0.0	0.0	0.0
0.10	T	-5.72	1.05	-7.44	-3.99	7.35	0.67	6.26	8.45	20.28	1.24	18.26	0.02	22.30	0.12	0.12	0.12
F	O*20	-5.89	0.93	-7.41	-4.37	7.34	0.68	6.22	8.45	20.29	1.18	18.35	0.02	22.24	0.17	0.29	0.29
O	O*30	-6.09	1.06	-7.83	-4.36	7.35	0.75	6.13	8.57	20.20	1.20	18.29	0.02	22.24	0.20	0.50	0.50
R	O*40	-5.96	1.11	-7.78	-4.14	7.39	0.74	6.18	8.60	20.30	1.26	18.23	0.02	22.36	0.14	0.64	0.64
W	W*50	-5.71	1.08	-7.48	-3.94	7.44	0.67	6.33	8.54	20.36	1.35	18.13	0.02	22.58	0.26	0.90	0.90
A	A*60	-5.33	0.96	-6.90	-3.76	7.21	0.73	6.02	8.40	20.48	1.26	18.42	0.02	22.54	0.45	1.36	1.36
R	O*70	-5.08	1.03	-6.77	-3.39	7.12	0.77	5.85	8.39	20.60	1.21	18.61	0.02	22.58	0.29	1.65	1.65
D	O*80	-5.07	1.11	-6.89	-3.25	7.32	0.44	6.61	8.04	20.59	1.23	18.67	0.02	22.71	0.23	1.68	1.68
O	O*90	-4.94	1.20	-6.91	-2.96	7.48	0.44	6.76	8.20	20.73	1.25	18.68	0.02	22.77	0.21	2.09	2.09
1.00	T	-4.74	1.24	-6.77	-2.72	7.59	0.52	6.74	8.44	20.72	1.27	18.63	0.02	22.81	0.22	2.31	2.31
0.0	T	-4.74	1.24	-6.77	-2.72	7.59	0.52	6.74	8.44	20.74	1.27	18.63	0.02	22.81	0.0	0.0	0.0
0.10	T	-4.86	1.19	-6.81	-2.91	7.49	0.47	6.72	8.26	20.59	1.19	18.75	0.02	22.64	0.16	0.16	0.16
O*20	T	-5.00	1.18	-6.94	-3.06	7.41	0.43	6.71	8.12	20.55	1.15	18.76	0.02	22.53	0.17	0.32	0.32
R	O*30	-5.17	1.29	-7.28	-3.07	7.38	0.36	6.79	7.97	20.50	1.22	18.56	0.02	22.56	0.19	0.52	0.52
E	O*40	-5.26	1.33	-7.44	-3.09	7.31	0.35	6.73	7.89	20.48	1.28	18.38	0.02	22.58	0.14	0.66	0.66
T	O*50	-5.38	1.22	-7.38	-3.37	7.23	0.40	6.57	7.89	20.44	1.34	18.21	0.02	22.50	0.16	0.82	0.82
U	O*60	-5.52	1.18	-7.46	-3.57	7.24	0.43	6.53	7.94	20.48	1.37	18.14	0.02	22.62	0.14	0.96	0.96
R	O*70	-5.56	1.20	-7.53	-3.59	7.28	0.46	6.52	8.04	20.35	1.36	18.11	0.02	22.58	0.07	1.03	1.03
N	O*80	-5.53	1.15	-7.41	-3.64	7.40	0.52	6.56	8.25	20.33	1.34	18.14	0.02	22.53	0.13	1.16	1.16
O	O*90	-5.55	1.20	-7.52	-3.58	7.41	0.61	6.41	8.41	20.29	1.32	18.13	0.02	22.46	0.04	1.20	1.20
1.00	T	-5.60	1.30	-7.74	-3.74	7.38	0.73	6.18	8.57	20.25	1.31	18.10	0.02	22.40	0.08	1.28	1.28

LANDMARK - LT GRIP CENTER (17)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	SIZE, N	16.83	0.70	15.69	17.98	9.81	0.43	9.10	12.50	12.9	0.29	12.50	13.47	0.0	0.0	1.47	1.47
0.0		16.76	0.63	15.73	17.80	9.85	0.44	9.13	10.58	14.46	0.63	13.42	15.50	1.47	1.47	1.47	1.47
0.10		16.67	0.78	15.39	17.96	9.79	0.42	9.10	10.47	16.18	0.89	14.72	17.64	1.73	1.73	3.20	3.20
F	0.20	16.60	0.91	15.10	18.09	9.49	0.35	8.92	10.06	18.33	0.88	16.89	19.76	5.37	5.37	5.37	5.37
R	0.30	16.93	0.86	15.86	18.34	9.36	0.33	8.82	9.93	19.96	1.13	18.11	21.82	1.67	1.67	7.04	7.04
R	0.40	17.43	0.81	16.10	18.75	9.32	0.31	8.82	9.83	21.39	1.33	19.20	23.57	1.51	1.51	8.04	8.04
M	0.50	18.06	0.95	16.51	19.61	9.43	0.29	8.76	9.90	22.4	1.19	20.18	24.10	0.99	0.99	9.54	9.54
A	0.60	18.69	1.10	16.89	20.50	9.55	0.34	8.99	10.10	22.69	1.04	20.97	24.40	0.84	0.84	10.38	10.38
R	0.70	19.31	1.17	17.39	21.24	9.73	0.39	9.09	10.36	22.15	0.81	21.42	24.07	0.65	0.65	11.04	11.04
D	0.80	19.83	1.12	17.99	21.67	9.95	0.43	9.24	10.66	22.64	0.64	21.60	23.69	0.57	0.57	11.61	11.61
O	0.90	20.29	1.02	18.63	21.96	10.18	0.50	9.36	11.00	22.49	0.60	21.50	23.47	0.54	0.54	12.15	12.15
1.00																	
0.0		20.29	1.02	18.63	21.96	10.18	0.50	9.36	11.00	22.49	0.60	21.50	23.47	0.0	0.0	0.0	0.0
0.10		19.48	0.94	17.94	21.02	9.90	0.56	9.99	10.82	21.95	0.95	20.39	23.51	1.02	1.02		
0.20		18.65	1.01	16.99	20.30	9.63	0.75	8.41	10.86	21.27	1.50	18.81	23.74	1.11	1.11		
R	0.30	17.82	1.12	15.98	19.46	9.42	0.86	8.01	10.83	20.06	1.58	17.47	22.65	1.48	1.48		
E	0.40	17.37	0.99	15.74	19.00	9.27	0.91	7.79	10.76	18.56	1.60	15.94	21.18	1.58	1.58		
T	0.50	17.20	0.88	15.76	18.65	9.30	0.67	8.20	10.43	16.34	1.56	14.35	19.46	1.66	1.66		
U	0.60	17.06	0.99	15.44	18.68	9.47	0.55	8.26	10.37	15.77	1.10	13.97	17.58	1.15	1.15		
R	0.70	16.97	1.04	15.26	16.67	9.67	0.49	8.87	10.47	14.79	0.78	13.51	16.07	1.01	1.01		
N	0.80	16.97	0.91	15.47	18.46	9.87	0.48	9.08	10.66	14.07	0.78	13.08	15.06	0.75	0.75		
O	0.90	16.91	0.76	15.66	18.15	9.85	0.45	9.11	10.60	13.53	0.64	12.82	14.25	0.54	0.54		
1.00		16.83	0.70	15.69	17.98	9.81	0.43	9.10	10.52	12.99	0.29	12.50	13.47	0.55	0.55		

LANDMARK - LT TROCHANTER (19)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	SIZE, N	3.28	0.90	1.82	4.75	6.44	0.63	5.41	7.46	3.60	0.62	2.58	4.62	0.0	0.0	0.0	0.0
0.0		3.38	0.82	2.03	4.73	6.49	0.61	5.41	7.48	3.63	0.58	2.68	4.59	0.11	0.11	0.11	0.11
F	0.20	3.40	0.80	2.09	4.71	6.51	0.66	5.43	7.59	3.65	0.56	2.73	4.56	0.03	0.14		
O	0.30	3.29	0.87	1.87	4.72	6.51	0.73	5.31	7.70	3.61	0.54	2.73	4.49	0.11	0.25		
R	0.40	3.32	0.93	1.80	4.85	6.59	0.73	5.39	7.78	3.59	0.49	2.80	4.39	0.09	0.34		
M	0.50	3.40	0.97	1.82	4.92	6.69	0.70	5.54	7.84	3.58	0.44	2.86	4.31	0.13	0.47		
A	0.60	3.40	0.94	1.85	4.94	6.69	0.66	5.60	7.78	3.58	0.42	2.89	4.27	0.01	0.48		
R	0.70	3.39	0.92	1.88	4.89	6.66	0.64	5.62	7.71	3.59	0.40	2.93	4.25	0.03	0.51		
D	0.80	3.37	0.91	1.87	4.86	6.59	0.63	5.56	7.63	3.62	0.38	3.00	4.24	0.08	0.59		
O	0.90	3.39	0.89	1.92	4.86	6.60	0.65	5.52	7.67	3.47	0.57	2.53	4.41	0.15	0.74		
1.00		3.42	0.87	2.00	4.84	6.63	0.70	5.48	7.79	3.25	1.06	1.51	4.98	0.23	0.97		
0.0		3.42	0.87	2.00	4.84	6.63	0.70	5.48	7.79	3.25	1.06	1.51	4.98	0.0	0.0		
0.10		3.45	0.87	2.03	4.87	6.66	0.71	5.49	7.83	3.47	0.80	2.06	4.67	0.12	0.12		
R	0.20	3.44	0.87	2.02	4.88	6.70	0.74	5.59	7.90	3.47	0.58	2.52	4.43	0.11	0.23		
R	0.30	3.46	0.86	2.04	4.85	6.66	0.76	5.41	7.92	3.57	0.49	2.77	4.37	0.10	0.34		
E	0.40	3.46	0.84	2.07	4.84	6.54	0.81	5.22	7.87	3.62	0.49	2.82	4.42	0.13	0.47		
T	0.50	3.45	0.85	2.05	4.85	6.43	0.88	4.99	7.86	3.33	0.49	2.83	4.43	0.12	0.59		
U	0.60	3.34	0.89	1.88	4.80	6.51	0.77	5.25	7.77	3.63	0.47	2.85	4.40	0.14	0.73		
R	0.70	3.27	0.91	1.77	4.77	6.58	0.66	5.20	7.66	3.64	0.46	2.88	4.40	0.10	0.83		
N	0.80	3.31	0.90	1.84	4.78	6.61	0.57	5.67	7.54	3.66	0.47	2.83	4.43	0.05	0.86		
O	0.90	3.31	0.89	1.85	4.77	6.53	0.56	5.61	7.45	3.64	0.54	2.76	4.52	0.08	0.95		
1.00		3.28	0.90	1.82	4.75	6.44	0.63	5.41	7.45	3.50	0.62	0.62	4.62	0.11	1.06		

LANDMARK - LT KNEE TOP (21)

TIME	SAMPLE	(----- X - CO-ORDINATE -----)					(----- Y - CO-GRD INATE -----)					(----- Z - CO-ORDINATE -----)				
		5 PCT	MEAN	95 PCT	5 PCT	MEAN	5 PCT	MEAN	95 PCT	5 PCT	MEAN	5 PCT	MEAN	95 PCT	5 PCT	MEAN
0.0	S	19.36	1.08	17.60	21.12	5.38	0.33	4.84	5.92	11.08	1.02	9.40	1.27	0.75	0.0	0.0
0.10	F	19.66	0.95	18.10	21.22	5.49	0.34	4.93	6.05	11.07	1.01	9.41	1.27	0.73	0.32	0.32
0.20	R	19.83	0.90	18.36	21.31	5.53	0.37	4.92	6.15	11.09	1.01	9.43	1.27	0.75	0.18	0.50
0.30	D	19.74	0.92	18.23	21.25	5.47	0.24	5.07	5.86	11.15	1.04	9.45	1.28	0.85	0.13	0.63
0.40	R	19.74	0.86	18.33	21.16	5.63	0.59	4.66	6.60	11.58	1.28	9.49	1.36	0.68	0.46	1.09
0.50	M	19.74	0.82	18.41	21.03	5.61	0.56	4.69	6.53	11.58	1.28	9.49	1.36	0.67	0.03	1.12
0.60	A	19.73	0.77	18.47	20.99	5.63	0.53	4.76	6.50	11.54	1.33	9.36	1.37	0.71	0.05	1.17
0.70	R	19.72	0.77	18.46	20.99	5.65	0.55	4.74	6.55	11.50	1.35	9.29	1.37	0.70	0.05	1.22
0.80	D	19.70	0.72	18.52	20.88	5.67	0.59	4.70	6.64	11.45	1.30	9.32	1.35	0.59	0.05	1.27
0.90	N	19.64	0.69	18.50	20.78	5.69	0.50	4.88	6.51	11.40	1.28	9.30	1.35	0.51	0.08	1.35
1.00	S	19.57	0.74	18.37	20.78	5.71	0.41	5.04	6.39	11.40	1.27	9.28	1.34	0.44	0.08	1.44
0.0	S	19.57	0.74	18.37	20.78	5.71	0.41	5.04	6.39	11.36	1.27	9.28	1.34	0.44	0.0	0.0
0.10	F	19.68	0.60	18.70	20.67	5.72	0.45	4.99	6.46	11.42	1.24	9.38	1.34	0.46	0.13	0.13
0.20	R	19.78	0.49	18.98	20.58	5.75	0.51	4.91	6.59	11.46	1.24	9.42	1.34	0.49	0.11	0.23
0.30	D	19.76	0.53	18.88	20.63	5.76	0.67	4.66	6.86	11.45	1.28	9.36	1.35	0.54	0.02	0.26
0.40	R	19.63	0.71	18.47	20.80	5.39	0.50	4.57	6.22	11.07	1.07	9.32	12.82	0.54	0.80	0.80
0.50	T	19.54	0.78	18.26	20.82	5.27	0.39	4.64	5.91	11.09	1.08	9.31	12.87	0.15	0.95	0.95
0.60	U	19.41	0.93	17.87	20.94	5.24	0.25	4.84	5.65	11.07	1.12	9.24	12.91	0.14	1.09	1.09
0.70	R	19.42	0.94	17.88	20.96	5.29	0.22	4.93	5.66	11.08	1.12	9.24	12.91	0.05	1.14	1.14
0.80	N	19.62	0.76	18.37	20.86	5.47	0.36	4.89	6.06	11.10	1.07	9.35	12.85	0.27	1.41	1.41
0.90	M	19.54	0.86	18.13	20.95	5.46	0.31	4.95	5.97	11.10	1.04	9.40	12.80	0.07	1.48	1.48
1.00	S	19.36	1.08	17.60	21.12	5.38	0.33	4.84	5.92	11.08	1.02	9.40	12.75	0.20	1.68	1.68

LANDMARK - LT SHOULDER CENTER (23)

TIME	SAMPLE	(----- X - CO-ORDINATE -----)					(----- Y - CO-GRD INATE -----)					(----- Z - CO-ORDINATE -----)				
		5 PCT	MEAN	95 PCT	5 PCT	MEAN	5 PCT	MEAN	95 PCT	5 PCT	MEAN	5 PCT	MEAN	95 PCT	5 PCT	MEAN
0.0	S	-3.64	1.02	-5.31	-1.97	7.72	0.73	6.52	8.92	18.64	0.85	17.25	20.04	0.0	0.0	0.0
0.10	F	-3.68	0.90	-5.16	-2.19	7.76	0.74	6.54	8.98	18.64	0.85	17.25	20.02	0.06	0.06	0.18
0.20	R	-3.78	0.87	-5.21	-2.35	7.82	0.81	6.49	9.15	18.65	0.88	17.21	20.10	0.12	0.12	0.18
0.30	D	-3.93	0.89	-5.39	-2.47	7.90	0.83	6.54	9.17	18.76	0.96	17.19	20.34	0.20	0.38	0.57
0.40	R	-3.81	0.99	-5.63	-2.19	7.92	0.76	6.67	9.17	18.94	0.98	17.30	20.51	0.19	0.57	0.57
0.50	M	-3.60	1.08	-5.36	-1.83	7.93	0.66	6.84	9.02	19.34	0.99	17.42	20.66	0.25	0.82	0.82
0.60	A	-3.43	1.11	-5.25	-1.61	7.87	0.53	7.01	8.74	19.22	1.00	17.61	20.83	0.25	1.07	1.07
0.70	R	-3.25	1.13	-5.10	-1.40	7.85	0.45	7.12	8.59	19.37	1.03	17.69	21.06	0.24	1.31	1.31
0.80	D	-3.02	1.13	-4.88	-1.16	7.91	0.57	6.97	8.85	19.47	1.11	17.65	21.20	0.26	1.57	1.57
0.90	N	-2.79	1.16	-4.69	-0.90	7.99	0.68	6.88	9.10	19.52	1.15	17.63	21.40	0.24	1.81	1.81
1.00	S	-2.59	1.21	-4.58	-0.59	8.08	0.74	6.87	9.28	19.53	1.17	17.61	21.46	0.23	2.03	2.03
0.0	S	-2.59	1.21	-4.58	-0.59	8.08	0.74	6.87	9.28	19.53	1.17	17.61	21.46	0.0	0.0	0.0
0.10	F	-2.67	1.11	-4.49	-0.85	8.00	0.64	6.95	9.06	19.43	1.06	17.69	21.17	0.15	0.15	0.15
0.20	R	-2.80	1.09	-4.58	-1.02	7.94	0.57	7.00	8.88	19.31	1.01	17.65	20.96	0.19	0.34	0.34
0.30	D	-3.10	1.08	-4.87	-1.34	7.90	0.55	7.00	8.80	19.15	1.03	17.46	20.84	0.35	0.69	0.69
0.40	R	-3.29	1.06	-5.03	-1.55	7.83	0.61	6.84	8.82	19.03	1.00	17.39	20.68	0.23	0.92	0.92
0.50	T	-3.39	1.06	-5.14	-1.65	7.78	0.70	6.63	8.94	18.93	0.96	17.36	20.50	0.16	1.07	1.07
0.60	U	-3.49	1.14	-5.36	-1.61	7.78	0.76	6.53	9.03	18.85	0.97	17.26	20.44	0.12	1.19	1.19
0.70	R	-3.54	1.22	-5.54	-1.53	7.80	0.82	6.45	9.14	18.80	0.98	17.19	20.41	0.07	1.27	1.27
0.80	N	-3.53	1.17	-5.44	-1.61	7.88	0.88	6.43	9.22	18.78	0.94	17.24	20.32	0.08	1.35	1.35
0.90	M	-3.57	1.07	-5.32	-1.81	7.82	0.82	6.48	9.16	18.74	0.88	17.26	20.16	0.10	1.45	1.45
1.00	S	-3.64	1.02	-5.31	-1.97	7.72	0.73	6.52	8.92	18.64	0.85	17.25	20.04	0.14	1.59	1.59

LANDMARK - LT ELBOW CENTER (251

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE								
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	A	6	3.71	0.61	2.71	4.71	12.70	0.60	11.71	13.69	12.94	1.36	10.71	15.17	0.0	0.0	0.0	0.0	0.0	0.0
0.10	F	6	3.98	0.70	2.84	5.13	12.50	0.43	11.79	13.21	13.30	1.33	11.11	15.48	0.49	0.49	0.49	0.49	0.49	0.49
0.20	R	6	4.15	0.73	2.96	5.35	12.38	0.50	11.56	13.19	13.76	1.25	11.71	15.81	0.51	0.51	0.51	0.51	0.51	0.51
0.30	D	6	4.20	0.64	3.15	5.24	12.42	0.43	11.72	13.12	14.55	1.11	12.73	16.38	0.79	0.79	0.79	0.79	0.79	0.79
0.40	N	6	4.75	0.71	3.59	5.90	12.36	0.39	11.72	12.99	15.53	1.01	13.07	17.19	1.13	1.13	1.13	1.13	1.13	1.13
0.50	H	6	5.51	0.82	4.16	6.86	12.22	0.43	11.52	12.93	14.25	0.93	15.03	18.08	1.28	1.28	1.28	1.28	1.28	1.28
0.60	A	6	6.04	0.94	4.50	7.58	12.03	0.48	11.24	12.82	17.45	0.85	16.06	18.85	1.06	1.06	1.06	1.06	1.06	1.06
0.70	R	6	6.49	0.96	4.91	8.07	11.80	0.55	10.90	12.69	18.24	0.87	16.79	19.64	0.91	0.91	0.91	0.91	0.91	0.91
0.80	D	6	6.76	0.86	5.36	8.17	11.51	0.58	10.56	12.47	18.62	0.95	17.06	20.17	0.56	0.56	0.56	0.56	0.56	0.56
0.90	N	6	7.10	0.79	5.80	8.40	11.28	0.65	10.21	12.35	18.82	0.92	17.32	20.32	0.46	0.46	0.46	0.46	0.46	0.46
1.00	A	6	7.48	0.75	6.25	8.71	11.07	0.76	9.82	12.32	18.96	0.88	17.52	20.40	0.46	0.46	0.46	0.46	0.46	0.46
0.0	F	6	7.48	0.75	6.25	8.71	11.07	0.76	9.82	12.32	18.96	0.88	17.52	20.40	0.0	0.0	0.0	0.0	0.0	0.0
0.10	R	6	6.78	0.75	5.54	8.01	11.64	0.68	10.53	12.75	17.96	0.75	16.74	19.18	1.35	1.35	1.35	1.35	1.35	1.35
0.20	D	6	6.06	0.84	4.69	7.44	12.19	0.70	11.05	13.34	16.93	0.72	15.14	18.11	2.73	2.73	2.73	2.73	2.73	2.73
0.30	N	6	5.46	0.94	3.92	7.00	12.55	0.67	11.46	13.65	15.95	0.87	14.53	17.37	1.20	1.20	1.20	1.20	1.20	1.20
0.40	E	6	4.99	0.91	3.49	6.49	12.75	0.67	11.65	13.85	15.24	0.98	13.63	16.84	0.88	0.88	0.88	0.88	0.88	0.88
0.50	T	6	4.52	0.82	3.17	5.86	12.86	0.69	11.73	14.00	14.64	1.07	12.86	16.35	0.80	0.80	0.80	0.80	0.80	0.80
0.60	U	6	4.18	0.75	2.95	5.41	12.84	0.62	11.83	13.85	14.17	1.07	12.42	15.92	0.55	0.55	0.55	0.55	0.55	0.55
0.70	R	6	4.00	0.75	2.76	5.23	12.82	0.55	11.92	13.73	13.76	1.06	12.01	15.51	0.45	0.45	0.45	0.45	0.45	0.45
0.80	N	6	3.98	0.61	2.98	4.97	12.87	0.54	11.97	13.76	13.44	1.07	11.69	15.19	0.33	0.33	0.33	0.33	0.33	0.33
0.90	D	6	3.86	0.54	2.97	4.74	12.79	0.49	11.98	13.59	13.19	1.21	11.21	15.17	0.29	0.29	0.29	0.29	0.29	0.29
1.00	A	6	3.71	0.51	2.71	4.71	12.70	0.60	11.71	13.69	12.94	1.36	10.71	15.17	0.30	0.30	0.30	0.30	0.30	0.30

LANDMARK - LT WRIST CENTER (277

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE								
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	A	3	13.00	0.81	11.66	14.34	10.72	0.61	9.72	11.72	12.69	0.07	12.57	12.81	0.0	0.0	0.0	0.0	0.0	0.0
0.10	F	3	13.27	0.95	11.72	14.82	10.88	0.55	9.99	11.73	14.09	0.27	13.64	14.53	1.43	1.43	1.43	1.43	1.43	1.43
0.20	R	4	13.55	0.99	11.92	15.18	10.60	0.82	9.25	11.96	14.94	1.28	12.82	17.01	0.92	2.35	2.35	2.35	2.35	2.35
0.30	D	4	13.73	1.13	11.87	15.59	10.31	1.01	8.65	11.97	16.67	0.94	15.13	18.20	1.79	4.14	4.14	4.14	4.14	4.14
0.40	N	4	14.33	1.10	12.52	16.13	10.15	0.56	8.58	11.73	18.30	0.67	17.20	19.41	1.75	5.88	5.88	5.88	5.88	5.88
0.50	A	4	15.08	1.06	13.35	17.59	10.09	0.86	8.67	11.50	19.86	1.06	19.11	20.61	1.74	7.62	7.62	7.62	7.62	7.62
0.60	R	4	15.69	1.15	13.80	17.98	10.68	0.66	9.59	11.77	21.27	0.48	20.49	22.06	0.94	8.56	8.56	8.56	8.56	8.56
0.70	N	3	15.87	1.28	13.77	18.67	10.77	0.59	9.81	11.73	21.52	0.43	20.81	22.23	0.61	10.01	10.01	10.01	10.01	10.01
0.80	D	3	16.43	1.37	14.19	18.78	10.85	0.68	9.74	11.96	21.49	0.42	20.80	22.08	0.54	10.55	10.55	10.55	10.55	10.55
0.90	A	3	16.97	1.11	15.15	18.78	10.96	0.81	9.63	12.29	21.36	0.42	20.68	22.04	0.51	11.06	11.06	11.06	11.06	11.06
1.00	F	3	17.44	0.74	16.22	18.66	10.96	0.81	9.63	12.29	21.36	0.42	20.68	22.04	0.0	0.0	0.0	0.0	0.0	0.0
0.0	R	3	16.46	1.15	14.58	18.34	10.87	0.77	9.62	12.13	20.53	1.03	18.95	22.31	1.23	1.23	1.23	1.23	1.23	1.23
0.20	N	3	15.46	1.59	12.85	18.07	10.77	0.79	9.48	12.06	19.72	1.70	16.94	22.51	2.58	2.58	2.58	2.58	2.58	2.58
0.30	E	3	14.54	1.69	11.76	17.31	10.66	0.82	9.31	12.01	18.45	1.75	15.59	21.32	4.15	4.15	4.15	4.15	4.15	4.15
0.40	T	3	13.96	1.56	11.39	16.52	10.56	0.92	9.05	12.06	17.29	1.61	14.65	19.93	1.31	5.46	5.46	5.46	5.46	5.46
0.50	A	3	13.58	1.67	10.85	16.32	10.65	0.73	9.46	11.85	16.03	1.42	13.70	18.37	1.31	6.77	6.77	6.77	6.77	6.77
0.60	U	3	13.38	1.64	10.68	16.07	10.83	0.66	9.76	11.91	15.09	1.04	13.38	16.80	0.99	7.76	7.76	7.76	7.76	7.76
0.70	R	3	13.20	1.47	10.78	15.62	11.04	0.55	10.14	11.94	14.27	0.73	13.06	15.47	0.87	8.62	8.62	8.62	8.62	8.62
0.80	N	3	13.15	1.09	11.36	14.94	11.20	0.49	10.39	12.01	13.54	0.52	13.11	14.16	0.65	9.28	9.28	9.28	9.28	9.28
0.90	D	3	13.09	0.92	11.58	14.60	10.98	0.59	10.01	11.95	13.16	0.16	12.91	14.42	0.52	9.80	9.80	9.80	9.80	9.80
1.00	A	3	13.00	0.81	11.66	14.34	10.72	0.61	9.72	11.72	12.69	0.07	12.57	12.81	0.07	10.35	10.35	10.35	10.35	10.35

MOVEMENT: RIGHT HAND MOVES FROM STICK CONTROLLER AT +20.0, 0.0, +15.0 TO HATCH RELEASE CONTROLLER AT +11.0, -13.0, +23.0 AND RETURNS. THIS MOVEMENT IS PRECEDED BY LEFT HAND MOVING FROM THROTTLE CONTROLLER AT +18.0, +10.0, +12.4 TO STICK CONTROLLER AND IS FOLLOWED BY LEFT HAND RETURNING BACK TO STICK CONTROLLER.

MOTION NUMBER - 11160
BACK ANGLE - 30

TIME DATA			
SUB-MOVEMENT	MEAN	STD DEV	RANGE
RGHT FWD	0.85	0.15	0.60 TO 1.00 SECS.
RGHT REV	0.86	0.21	0.75 TO 1.20 SECS.

LANDMARK - NATION

(1)

TIME	SAMPLE	(---X - CO-ORDINATE---					(---Y - CO-ORDINATE---					(---Z - CO-ORDINATE---					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	0.80	1.37	-1.45	3.04	-0.21	0.62	-1.23	0.80	27.63	1.35	25.41	29.84	0.0	0.0	0.0	0.0
0.10	F	0.14	1.37	-2.11	2.39	-1.22	0.88	-2.65	0.22	27.92	1.30	25.79	30.05	1.23	1.23	1.23	1.23
0.20	R	0.21	1.36	-2.01	2.43	-1.41	0.83	-2.78	0.05	27.90	1.33	25.72	30.07	0.21	0.21	0.21	0.21
0.30	D	0.17	1.53	-2.33	2.68	-1.51	0.76	-2.75	0.27	27.94	1.22	25.91	29.90	0.10	0.10	0.10	0.10
0.40	K	0.15	1.36	-2.07	2.37	-1.65	0.69	-2.77	0.52	27.94	1.22	25.90	29.91	0.14	0.14	0.14	0.14
0.50	N	0.12	1.45	-2.26	2.50	-1.55	0.62	-2.57	0.54	27.94	1.08	26.11	29.66	0.10	0.10	0.10	0.10
0.60	A	0.07	1.47	-2.44	2.40	-1.41	0.74	-2.62	0.19	27.85	1.07	26.11	29.60	0.21	0.21	0.21	0.21
0.70	K	-0.01	1.58	-2.61	2.59	-1.28	0.89	-2.74	0.13	27.84	1.07	26.08	29.60	0.13	0.13	0.13	0.13
0.80	D	-0.11	1.53	-2.61	2.39	-1.16	0.97	-2.75	0.43	27.87	1.06	26.14	29.61	0.16	0.16	0.16	0.16
0.90	O	-0.14	1.57	-2.71	2.43	-1.06	0.89	-2.52	0.40	27.88	1.02	26.20	29.55	0.10	0.10	0.10	0.10
1.00	T	-0.12	1.54	-2.65	2.40	-1.00	0.95	-2.56	0.56	27.93	1.09	26.14	29.72	0.47	0.47	0.47	0.47
0.0	F	0.05	1.54	-2.65	2.40	-1.00	0.95	-2.56	0.56	27.93	1.09	26.14	29.72	0.0	0.0	0.0	0.0
0.10	R	0.28	1.52	-2.21	2.78	-0.92	0.68	-1.72	0.33	27.82	1.21	25.83	29.80	0.83	0.83	0.83	0.83
0.20	E	0.42	1.46	-1.97	2.81	0.03	0.75	-1.21	1.26	27.79	1.16	25.85	29.74	0.30	0.30	0.30	0.30
0.30	T	0.46	1.48	-1.98	2.59	0.09	0.79	-1.20	1.38	27.79	1.11	25.96	29.69	0.14	0.14	0.14	0.14
0.40	N	0.51	1.39	-1.77	2.79	0.15	0.87	-1.27	1.58	27.81	1.15	25.93	29.70	0.07	0.07	0.07	0.07
0.50	A	0.56	1.32	-1.61	2.73	0.11	0.84	-1.27	1.50	27.86	1.06	26.12	29.59	0.08	0.08	0.08	0.08
0.60	R	0.59	1.27	-1.50	2.67	0.06	0.82	-1.28	1.40	27.77	1.19	25.82	29.71	0.10	0.10	0.10	0.10
0.70	O	0.71	1.20	-1.26	2.68	-0.02	0.72	-1.20	1.16	27.68	1.24	25.65	29.72	0.17	0.17	0.17	0.17
0.80	N	0.80	1.26	-1.27	2.66	-0.11	0.61	-1.11	0.90	27.67	1.24	25.64	29.69	0.12	0.12	0.12	0.12
0.90	E	0.80	1.37	-1.45	3.04	-0.21	0.62	-1.23	0.60	27.63	1.35	25.41	29.84	0.11	0.11	0.11	0.11
1.00	F	0.80	1.37	-1.45	3.04	-0.21	0.62	-1.23	0.60	27.63	1.35	25.41	29.84	0.11	0.11	0.11	0.11

LANDMARK - CERVICALE

(2)

TIME	SAMPLE	(---X - CO-ORDINATE---					(---Y - CO-ORDINATE---					(---Z - CO-ORDINATE---					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-6.51	0.78	-5.22	0.55	1.25	-1.50	2.59	21.57	1.51	19.10	24.04	0.0	0.0	0.0	0.0	
0.10	F	-7.31	1.17	-9.23	-5.40	0.39	0.54	-0.50	1.29	21.54	1.41	19.19	23.83	0.83	0.83	0.83	0.83
0.20	R	-7.19	1.19	-9.43	-5.24	0.47	0.59	-0.49	1.44	21.54	1.41	19.24	23.85	0.15	0.15	0.15	0.15
0.30	D	-7.27	1.22	-9.26	-5.27	0.51	0.62	-0.51	1.54	21.59	1.46	19.20	23.99	0.10	0.10	0.10	0.10
0.40	K	-7.17	1.20	-9.52	-5.26	0.51	0.65	-0.55	1.59	21.58	1.46	19.21	23.75	0.20	0.20	0.20	0.20
0.50	N	-7.14	0.93	-8.67	-5.61	0.62	0.91	-0.67	2.30	21.25	1.36	19.13	23.57	0.21	0.21	0.21	0.21
0.60	A	-7.19	0.95	-8.75	-5.64	0.96	0.75	-0.27	2.20	21.40	1.39	19.18	23.74	0.19	0.19	0.19	0.19
0.70	R	-6.93	0.91	-8.51	-5.55	1.27	0.97	-0.32	2.86	21.48	1.42	19.15	23.80	0.35	0.35	0.35	0.35
0.80	D	-6.99	0.93	-8.52	-5.46	1.29	1.02	-0.38	2.96	21.54	1.46	19.16	23.91	0.08	0.08	0.08	0.08
0.90	O	-6.95	0.97	-8.54	-5.36	1.25	1.16	-0.65	3.15	21.48	1.46	19.08	23.87	0.19	0.19	0.19	0.19
1.00	T	-7.05	0.96	-8.62	-5.48	1.19	1.26	-0.88	3.26	21.48	1.47	19.07	23.89	0.12	0.12	0.12	0.12
0.0	F	-7.05	0.96	-8.62	-5.48	1.19	1.26	-0.88	3.26	21.48	1.47	19.07	23.89	0.0	0.0	0.0	0.0
0.10	R	-6.99	0.98	-8.59	-5.40	1.22	1.23	-0.80	3.23	21.48	1.42	19.15	23.82	0.06	0.06	0.06	0.06
0.20	E	-6.86	0.89	-8.31	-5.40	1.20	1.15	-0.70	3.09	21.52	1.46	19.11	23.92	0.14	0.14	0.14	0.14
0.30	T	-6.85	0.85	-8.24	-5.47	1.10	1.10	-0.71	2.91	21.57	1.51	19.10	24.05	0.11	0.11	0.11	0.11
0.40	N	-6.85	0.85	-8.25	-5.45	0.95	0.99	-0.67	2.57	21.54	1.47	19.13	23.94	0.15	0.15	0.15	0.15
0.50	A	-6.79	0.83	-8.15	-5.33	0.91	0.98	-0.70	2.52	21.54	1.42	19.21	23.87	0.07	0.07	0.07	0.07
0.60	U	-6.72	0.74	-7.88	-5.55	0.91	1.12	-0.93	2.75	21.59	1.38	19.33	23.85	0.63	0.63	0.63	0.63
0.70	R	-6.61	0.73	-7.80	-5.44	0.97	1.48	-1.45	3.39	21.53	1.41	19.21	23.85	0.14	0.14	0.14	0.14
0.80	D	-6.62	0.71	-7.78	-5.45	0.74	1.27	-1.35	2.82	21.54	1.41	19.19	23.83	0.23	0.23	0.23	0.23
0.90	O	-6.67	0.82	-8.02	-5.32	0.49	1.18	-1.44	2.43	21.52	1.51	19.10	23.94	0.25	0.25	0.25	0.25
1.00	T	-6.51	0.78	-7.79	-5.22	0.55	1.25	-1.50	2.59	21.27	1.51	19.13	24.04	1.43	1.43	1.43	1.43

LANDMARK - SUPRASTERNALE (3)

TIME	SAMPLE T	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-2.05	1.47	-4.46	0.37	0.66	1.13	-1.20	2.51	20.75	1.04	19.06	22.45	0.0	0.0	0.0	0.0
0.10	7	-2.34	1.14	-4.21	-0.47	0.29	0.91	-1.21	1.79	20.54	0.96	19.05	22.19	0.49	0.49	0.49	0.49
F 0.20	7	-2.30	1.11	-4.13	-0.48	0.21	0.78	-1.07	1.49	20.57	1.00	18.94	22.21	0.10	0.10	0.10	0.10
0 0.30	7	-2.32	1.14	-4.18	-0.46	0.14	0.79	-1.16	1.43	20.58	1.00	18.95	22.22	0.08	0.08	0.08	0.08
R 0.40	7	-2.31	1.12	-4.15	-0.47	0.21	0.81	-1.12	1.54	20.54	1.01	18.88	22.20	0.08	0.08	0.08	0.08
W 0.50	7	-2.42	1.19	-4.13	-0.13	0.89	1.11	-2.08	2.48	20.48	1.08	18.86	22.11	0.22	0.22	0.22	0.22
A 0.60	7	-2.78	1.61	-5.42	-0.14	0.42	1.17	-1.50	2.34	20.58	1.08	18.81	22.35	0.34	0.34	0.34	0.34
R 0.70	7	-2.73	1.45	-5.11	-0.35	0.62	1.38	-1.64	2.88	20.52	1.05	18.93	22.34	0.21	0.21	0.21	0.21
D 0.80	7	-2.86	1.44	-5.22	-0.50	0.71	1.44	-1.64	3.07	20.56	1.04	18.96	22.37	0.17	0.17	0.17	0.17
N 0.90	7	-2.89	1.45	-5.26	-0.51	0.82	1.46	-1.57	3.22	20.65	0.99	19.03	22.27	0.11	0.11	0.11	0.11
1.00	7	-2.69	1.46	-5.09	-0.29	0.90	1.53	-1.61	3.41	20.71	1.06	18.98	22.45	0.22	0.22	0.22	0.22
0.0	7	-2.69	1.46	-5.09	-0.29	0.90	1.53	-1.61	3.41	20.71	1.06	18.98	22.45	0.0	0.0	0.0	0.0
0.10	7	-2.72	1.42	-5.04	-0.39	0.90	1.28	-1.20	3.01	20.51	1.05	18.89	22.33	0.11	0.11	0.11	0.11
0.20	7	-2.61	1.51	-5.09	-0.14	0.85	1.24	-1.19	2.88	20.59	1.03	19.00	22.38	0.14	0.14	0.14	0.14
R 0.30	7	-2.55	1.52	-5.05	-0.06	0.86	1.25	-1.19	2.90	20.72	1.04	19.02	22.43	0.07	0.07	0.07	0.07
E 0.40	7	-2.48	1.53	-4.99	0.03	0.73	1.18	-1.21	2.67	20.56	1.05	18.95	22.38	0.16	0.16	0.16	0.16
T 0.50	7	-2.41	1.50	-4.87	0.04	0.73	1.23	-1.28	2.75	20.73	1.03	19.01	22.39	0.08	0.08	0.08	0.08
U 0.60	7	-2.30	1.44	-4.66	0.06	0.79	1.30	-1.34	2.92	20.71	1.09	18.93	22.49	0.13	0.13	0.13	0.13
R 0.70	7	-2.22	1.24	-4.26	-0.18	0.92	1.50	-1.53	3.38	20.59	1.06	18.95	22.43	0.15	0.15	0.15	0.15
N 0.80	7	-2.26	1.42	-4.58	0.06	0.76	1.17	-1.16	2.67	20.58	0.99	19.06	22.30	0.17	0.17	0.17	0.17
0.90	7	-2.22	1.58	-4.81	0.38	0.62	1.00	-1.03	2.26	20.72	1.10	18.92	22.51	0.15	0.15	0.15	0.15
1.00	7	-2.05	1.47	-4.46	0.37	0.66	1.13	-1.20	2.51	20.75	1.04	19.06	22.45	0.18	0.18	0.18	0.18

LANDMARK - RT ACROMION

TIME	SAMPLE T	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-3.99	1.03	-5.69	-2.30	-7.84	0.62	-8.86	-6.81	19.92	1.17	18.83	21.83	0.3	0.3	0.3	0.3
0.10	7	-5.14	0.81	-6.47	-3.81	-7.78	0.70	-8.94	-6.63	20.32	1.20	18.05	22.00	1.15	1.15	1.15	1.15
F 0.20	7	-5.26	0.71	-6.42	-4.10	-7.73	0.58	-8.69	-6.78	20.38	1.25	18.02	22.14	0.14	0.14	0.14	0.14
O 0.30	7	-5.51	0.68	-6.62	-4.39	-7.58	0.69	-8.71	-6.46	20.11	1.21	18.13	22.10	0.29	0.29	0.29	0.29
R 0.40	7	-5.75	0.80	-7.06	-4.43	-7.52	0.77	-8.79	-6.26	20.16	1.26	18.09	22.22	0.25	0.25	0.25	0.25
W 0.50	7	-6.15	0.82	-7.49	-4.81	-7.59	0.51	-8.43	-6.75	20.22	1.18	18.28	22.17	0.41	0.41	0.41	0.41
A 0.60	7	-6.52	1.01	-8.07	-4.86	-7.50	0.46	-8.26	-6.74	20.25	1.22	18.26	22.25	0.38	0.38	0.38	0.38
R 0.70	7	-6.87	1.03	-8.56	-5.18	-7.24	0.55	-8.15	-6.33	20.31	1.28	18.21	22.41	0.44	0.44	0.44	0.44
D 0.80	7	-6.87	1.00	-8.52	-5.22	-7.30	0.46	-8.05	-6.56	20.39	1.21	18.40	22.38	0.10	0.10	0.10	0.10
0.90	7	-6.77	1.02	-8.44	-5.10	-7.34	0.50	-8.16	-6.52	20.39	1.19	18.45	22.33	0.11	0.11	0.11	0.11
1.00	7	-6.80	0.94	-8.34	-5.27	-7.34	0.68	-8.47	-6.22	20.45	1.20	18.48	22.41	0.07	0.07	0.07	0.07
0.0	7	-6.80	0.94	-8.34	-5.27	-7.34	0.68	-8.47	-6.22	20.45	1.20	18.48	22.41	0.0	0.0	0.0	0.0
0.10	7	-6.61	0.84	-8.00	-4.54	-7.51	0.58	-8.45	-6.56	20.34	1.24	18.29	22.35	0.28	0.28	0.28	0.28
R 0.30	7	-5.76	0.89	-7.23	-4.29	-7.64	0.58	-8.58	-6.70	20.22	1.25	18.18	22.26	0.47	0.47	0.47	0.47
E 0.40	7	-5.32	0.97	-6.90	-3.73	-7.64	0.62	-8.66	-6.62	20.15	1.18	18.25	22.11	0.41	0.41	0.41	0.41
T 0.50	7	-4.89	0.95	-6.44	-3.34	-7.63	0.68	-8.75	-6.52	20.15	1.04	18.40	21.90	0.44	0.44	0.44	0.44
U 0.60	7	-4.53	1.05	-6.25	-2.82	-7.68	0.64	-8.74	-6.63	20.13	1.03	18.45	21.81	0.36	0.36	0.36	0.36
R 0.70	7	-4.38	1.12	-6.22	-2.53	-7.70	0.64	-8.75	-6.66	20.04	1.02	18.23	21.82	0.19	0.19	0.19	0.19
N 0.80	7	-4.20	1.02	-5.97	-2.54	-7.76	0.62	-8.77	-6.75	19.99	1.08	18.22	21.76	0.19	0.19	0.19	0.19
0.90	7	-4.09	1.01	-5.76	-2.43	-7.88	0.66	-8.96	-6.81	19.97	1.16	18.06	21.88	0.46	0.46	0.46	0.46
1.00	7	-3.99	1.03	-5.69	-2.30	-7.84	0.62	-8.86	-6.81	19.92	1.17	18.00	21.83	0.13	0.13	0.13	0.13

LANDMARK - RT KNEE TOP (20)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	N	19.07	0.57	18.14	20.00	-5.40	0.96	-6.98	-3.82	11.67	0.96	9.83	13.05	0.0	0.0	0.0	0.0
0.10	F	18.97	0.68	17.86	20.09	-5.53	1.13	-7.38	-3.67	11.42	0.99	9.80	13.04	0.16	0.16	0.16	0.16
0.20	R	19.09	0.59	18.30	20.03	-5.55	1.12	-7.38	-3.72	11.43	1.04	9.72	13.14	0.10	0.10	0.26	0.26
0.30	D	19.09	0.62	18.08	20.11	-5.54	1.14	-7.44	-3.66	11.44	0.99	9.81	13.06	0.03	0.03	0.29	0.29
0.40	R	19.15	0.57	18.21	20.09	-5.50	1.05	-7.22	-3.77	11.39	1.06	9.66	13.13	0.08	0.08	0.37	0.37
0.50	N	19.13	0.59	18.16	20.11	-5.64	1.10	-7.44	-3.84	11.42	1.03	9.73	13.10	0.15	0.15	0.52	0.52
0.60	A	19.12	0.57	18.18	20.05	-5.62	1.14	-7.49	-3.75	11.38	0.97	9.73	12.98	0.04	0.04	0.56	0.56
0.70	R	19.15	0.50	18.32	19.98	-5.59	1.06	-7.33	-3.85	11.41	0.94	9.86	12.95	0.05	0.05	0.62	0.62
0.80	D	19.21	0.52	18.37	20.06	-5.59	1.16	-7.49	-3.69	11.38	0.96	9.80	12.95	0.07	0.07	0.68	0.68
0.90	N	19.18	0.68	18.06	20.30	-5.62	1.25	-7.67	-3.57	11.36	0.96	9.78	12.94	0.05	0.05	0.73	0.73
1.00	F	19.14	0.72	17.95	20.32	-5.49	1.10	-7.29	-3.68	11.44	1.02	9.77	13.12	0.16	0.16	0.90	0.90
0.0	E	19.14	0.72	17.95	20.32	-5.49	1.10	-7.29	-3.68	11.44	1.02	9.77	13.12	0.0	0.0	0.0	0.0
0.10	T	19.11	0.50	18.19	20.03	-5.54	1.18	-7.48	-3.60	11.41	1.00	9.77	13.06	0.07	0.07	0.07	0.07
0.20	R	19.13	0.49	18.32	19.94	-5.56	1.13	-7.40	-3.71	11.43	1.00	9.79	13.07	0.03	0.03	0.10	0.10
0.30	F	19.10	0.45	18.36	19.84	-5.48	1.15	-7.38	-3.59	11.46	0.98	9.85	13.07	0.08	0.08	0.18	0.18
0.40	E	19.12	0.53	18.24	19.99	-5.30	0.98	-6.97	-6.97	11.46	0.99	9.84	13.08	0.12	0.12	0.30	0.30
0.50	T	19.19	0.54	18.30	20.08	-5.34	0.74	-6.56	-4.11	11.45	1.01	9.80	13.10	0.08	0.08	0.38	0.38
0.60	N	19.21	0.48	18.42	19.99	-5.40	0.84	-6.78	-4.03	11.44	0.98	9.83	13.05	0.07	0.07	0.45	0.45
0.70	R	19.06	0.58	18.11	20.11	-5.36	0.91	-6.85	-3.87	11.42	1.00	9.81	13.09	0.15	0.15	0.60	0.60
0.80	D	19.06	0.58	18.20	20.12	-5.37	0.95	-6.92	-3.82	11.43	0.98	9.82	13.04	0.10	0.10	0.75	0.75
0.90	N	19.12	0.50	18.31	19.94	-5.42	0.91	-6.91	-3.93	11.44	0.97	9.85	13.02	0.06	0.06	0.82	0.82
1.00	F	19.07	0.57	18.14	20.00	-5.40	0.96	-6.98	-3.82	11.47	0.96	9.89	13.05	0.06	0.06	0.82	0.82

LANDMARK - RT SHOULDER CENTER (22)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	N	1.99	0.80	-3.30	-4.65	-7.21	0.68	-8.31	-6.10	1.15	1.04	19.81	0.0	0.0	0.0	0.0	0.0
0.10	F	3.09	0.95	-1.54	-7.38	-7.38	0.57	-8.32	-6.44	1.15	1.04	19.74	1.12	1.12	1.12	1.12	1.12
0.20	R	3.14	0.82	-4.48	-7.19	-7.44	0.55	-8.34	-6.55	1.18	1.08	19.74	0.08	0.08	1.20	1.20	1.20
0.30	D	3.44	0.77	-4.70	-7.44	-7.44	0.63	-8.47	-6.41	1.19	1.09	19.83	0.32	0.32	1.52	1.52	1.52
0.40	R	3.84	0.74	-5.05	-7.63	-7.46	0.56	-8.38	-6.55	1.25	1.13	19.83	0.40	0.40	1.92	1.92	1.92
0.50	H	4.24	0.85	-5.64	-7.84	-7.47	0.42	-8.16	-6.77	1.13	1.02	19.76	2.35	2.35	2.87	2.87	2.87
0.60	A	4.67	0.83	-6.03	-7.31	-7.46	0.40	-8.11	-6.81	1.14	1.04	19.77	0.44	0.44	2.87	2.87	2.87
0.70	R	4.71	0.74	-5.93	-7.50	-7.38	0.40	-8.15	-6.62	1.18	1.07	19.77	2.33	2.33	2.87	2.87	2.87
0.80	D	4.66	0.72	-5.84	-7.37	-7.37	0.45	-8.10	-6.64	1.18	1.07	19.77	2.05	2.05	2.65	2.65	2.65
0.90	N	4.72	0.88	-6.16	-7.27	-7.51	0.37	-8.11	-6.91	1.18	1.06	19.77	0.11	0.11	3.17	3.17	3.17
1.00	F	4.78	0.93	-6.30	-7.46	-7.25	0.60	-8.44	-6.48	1.26	1.15	19.83	0.11	0.11	3.43	3.43	3.43
0.0	E	4.78	0.93	-6.30	-7.46	-7.25	0.60	-8.44	-6.48	1.26	1.15	19.83	0.0	0.0	0.0	0.0	0.0
0.10	T	4.58	0.83	-5.93	-7.22	-7.46	0.53	-8.33	-6.58	1.29	1.14	19.84	0.30	0.30	0.75	0.75	0.75
0.20	R	4.18	0.86	-5.59	-7.77	-7.34	0.42	-8.03	-6.35	1.24	1.13	19.85	0.45	0.45	0.42	0.42	0.42
0.30	D	3.82	0.83	-5.18	-7.45	-7.16	0.48	-7.94	-6.38	1.25	1.18	19.80	2.19	2.19	2.19	2.19	2.19
0.40	R	3.54	1.07	-5.30	-7.19	-7.36	0.53	-8.23	-6.50	1.18	1.08	19.81	2.25	2.25	2.11	2.11	2.11
0.50	H	2.99	1.07	-4.74	-7.24	-7.33	0.59	-8.30	-6.37	1.17	1.07	19.82	2.08	2.08	2.08	2.08	2.08
0.60	A	4.47	0.95	-4.02	-7.17	-7.17	0.66	-8.24	-6.09	1.08	1.08	19.81	2.31	2.31	2.63	2.63	2.63
0.70	R	2.18	1.08	-3.95	-7.42	-7.14	0.73	-8.34	-5.94	1.16	1.11	19.92	2.29	2.29	2.92	2.92	2.92
0.80	D	2.14	0.64	-3.19	-7.20	-7.20	0.53	-8.07	-6.32	1.08	1.08	19.79	2.08	2.08	3.03	3.03	3.03
0.90	N	2.12	0.67	-3.22	-7.31	-7.31	0.51	-8.15	-6.47	1.13	1.08	19.70	2.17	2.17	2.17	2.17	2.17
1.00	F	1.99	0.80	-3.30	-7.21	-7.21	0.68	-8.31	-6.10	1.15	1.04	19.81	2.17	2.17	3.29	3.29	3.29

LANDMARK - RT GRIP CENTER (16)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	18.45	0.74	17.23	19.66	-1.82	0.54	-2.70	-0.94	13.94	0.18	13.61	14.20	0.0	0.0	0.0	0.0
0.10	7	16.93	1.19	14.98	18.86	-2.90	0.52	-3.76	-2.04	13.82	0.84	12.38	15.26	1.87	1.87	1.87	1.87
F 0.20	7	16.27	1.64	13.57	18.96	-3.46	0.57	-4.39	-2.53	14.25	1.27	12.17	16.34	0.97	2.84	2.84	2.84
R 0.30	7	14.78	1.98	11.52	18.03	-4.14	1.06	-5.89	-2.40	15.29	1.99	12.03	18.55	1.94	4.73	4.73	4.73
R 0.40	7	12.55	2.28	8.82	16.29	-5.38	1.39	-7.67	-3.09	17.09	2.59	12.85	21.34	3.12	7.89	7.89	7.89
W 0.50	7	10.18	2.12	6.71	13.65	-7.00	1.72	-9.83	-4.17	19.34	2.12	15.86	22.81	3.65	11.54	11.54	11.54
A 0.60	7	7.89	0.72	6.71	9.08	-9.62	1.25	-11.68	-7.57	21.17	1.11	19.34	22.99	3.93	15.47	15.47	15.47
R 0.70	7	7.82	0.90	6.35	9.30	-11.97	0.92	-13.47	-10.46	21.99	0.61	20.99	22.99	2.49	17.96	17.96	17.96
D 0.80	7	9.31	0.85	7.92	10.71	-13.47	0.73	-14.67	-12.27	21.94	0.42	21.25	21.63	2.12	20.03	20.03	20.03
O 0.90	7	10.44	0.24	10.04	10.84	-11.84	0.61	-14.85	-12.84	21.82	0.31	21.32	22.33	1.19	2.12	2.12	2.12
1.00	7	10.66	0.53	9.79	11.52	-13.66	0.27	-14.10	-13.22	22.04	0.37	21.41	22.62	0.34	21.61	21.61	21.61
0.0	7	10.66	0.53	9.79	11.52	-13.66	0.27	-14.10	-13.22	22.04	0.37	21.41	22.62	0.0	0.0	0.0	0.0
0.10	7	9.15	0.85	7.75	10.55	-12.38	0.68	-13.49	-11.27	21.88	0.56	20.95	22.80	1.98	1.98	1.98	1.98
0.20	7	9.00	0.75	7.77	10.22	-10.12	1.68	-12.88	-7.37	21.44	0.64	20.39	22.49	2.30	4.28	4.28	4.28
R 0.30	7	10.53	2.18	6.94	14.11	-7.83	2.14	-11.35	-4.32	20.33	1.24	18.30	22.35	2.97	7.25	7.25	7.25
E 0.40	7	13.44	2.51	9.32	17.56	-5.59	1.75	-8.46	-2.73	18.19	1.92	15.03	21.35	4.25	11.50	11.50	11.50
T 0.50	7	15.97	2.08	12.56	19.38	-3.77	1.61	-6.41	-1.14	16.23	1.66	13.52	18.95	3.68	15.19	15.19	15.19
U 0.60	7	16.72	1.63	14.06	19.39	-3.31	1.29	-5.43	-1.20	15.50	1.42	13.16	17.84	1.15	16.33	16.33	16.33
R 0.70	7	17.69	0.83	16.33	19.05	-2.49	0.62	-3.51	-1.47	14.62	0.77	13.36	15.88	1.54	17.88	17.88	17.88
O 0.80	7	18.10	0.74	16.94	19.27	-2.07	0.39	-2.70	-1.43	14.29	0.37	13.59	14.82	0.73	18.60	18.60	18.60
N 0.90	7	18.31	0.74	17.09	19.53	-1.93	0.43	-2.63	-1.23	13.98	0.16	13.71	14.24	0.34	18.74	18.74	18.74
1.00	7	18.45	0.74	17.23	19.66	-1.82	0.54	-2.70	-0.94	13.94	0.18	13.61	14.20	0.19	19.13	19.13	19.13

LANDMARK - RT TROCHANTER (18)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	3.50	0.93	1.97	5.02	-7.40	0.93	-8.92	-5.88	3.65	0.59	2.67	4.63	0.0	0.0	0.0	0.0
F 0.10	7	3.20	1.03	1.67	5.06	-7.34	0.91	-8.82	-5.85	3.57	0.65	2.50	4.64	0.17	0.17	0.17	0.17
R 0.20	7	3.48	0.73	4.78	7.25	-0.86	-6.67	-5.84	-3.55	0.62	0.62	2.64	4.66	0.16	0.33	0.33	0.33
O 0.30	7	3.44	0.72	2.25	4.62	-7.22	0.94	-8.77	-5.68	3.04	0.64	2.56	4.66	0.07	0.39	0.39	0.39
R 0.40	7	3.40	0.81	2.08	4.73	-7.20	0.87	-8.62	-5.77	3.55	0.67	2.51	4.70	0.04	0.43	0.43	0.43
W 0.50	7	3.44	0.81	2.11	4.77	-7.31	0.75	-8.54	-6.08	3.55	0.65	2.58	4.72	0.13	0.56	0.56	0.56
A 0.60	7	3.39	0.85	2.00	4.78	-7.35	0.89	-8.80	-5.89	3.63	0.67	2.54	4.72	0.13	0.62	0.62	0.62
R 0.70	7	3.28	0.88	1.83	4.73	-7.39	0.84	-8.76	-6.01	3.50	0.64	2.55	4.64	0.13	0.75	0.75	0.75
D 0.80	7	3.20	0.79	1.91	4.49	-7.48	0.56	-8.40	-6.56	3.58	0.66	2.49	4.66	0.12	0.87	0.87	0.87
O 0.90	7	3.50	0.76	2.25	4.74	-7.28	0.78	-8.57	-5.99	3.59	0.68	2.47	4.70	0.36	1.23	1.23	1.23
1.00	7	3.42	0.93	1.90	4.94	-7.24	0.74	-8.46	-6.03	3.56	0.69	2.43	4.69	0.09	1.32	1.32	1.32
0.0	7	3.42	0.93	1.90	4.94	-7.24	0.74	-8.46	-6.03	3.56	0.69	2.43	4.69	0.0	0.0	0.0	0.0
0.10	7	3.25	1.16	1.35	5.16	-7.38	1.06	-9.12	-5.65	3.34	0.85	1.96	4.73	0.31	0.31	0.31	0.31
O 0.20	7	3.40	1.05	1.67	5.12	-7.34	0.99	-8.97	-5.71	3.50	0.71	2.34	4.66	0.22	0.52	0.52	0.52
R 0.30	7	3.50	0.99	1.87	5.13	-7.30	0.86	-8.71	-5.89	3.60	0.69	2.47	4.73	0.15	0.67	0.67	0.67
E 0.40	7	3.50	1.05	1.78	5.21	-7.31	0.77	-8.58	-6.04	3.62	0.67	2.53	4.71	0.09	0.69	0.69	0.69
T 0.50	7	3.46	0.95	1.90	5.01	-7.28	0.88	-8.72	-5.84	3.54	0.59	2.68	4.60	0.05	0.75	0.75	0.75
U 0.60	7	3.45	0.77	2.19	4.71	-7.30	0.85	-8.77	-5.91	3.55	0.55	2.74	4.56	0.22	0.77	0.77	0.77
R 0.70	7	3.33	0.77	2.06	4.60	-7.37	0.86	-8.76	-5.91	3.53	0.61	2.63	4.62	0.14	0.91	0.91	0.91
N 0.80	7	3.45	0.89	1.98	4.91	-7.34	0.99	-8.96	-5.73	3.55	0.64	2.58	4.68	0.12	1.03	1.03	1.03
O 0.90	7	3.47	0.94	1.92	5.01	-7.29	1.00	-8.73	-5.65	3.50	0.67	2.56	4.70	0.06	1.09	1.09	1.09
1.00	7	3.50	0.93	1.97	5.02	-7.40	0.93	-8.92	-5.83	3.55	0.59	2.67	4.63	0.11	1.21	1.21	1.21

LANDMARK - RT ELBOW CENTER (24)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)				
		T SIZE, N	MEAN SE	5 PCT 95 PCT	95 PCT 5 PCT	MEAN SE	5 PCT 95 PCT	95 PCT 5 PCT	MEAN SE	5 PCT 95 PCT	95 PCT 5 PCT	MEAN SE	5 PCT 95 PCT	95 PCT 5 PCT		
0.0	T	6.19	0.85	7.58	-6.05	0.55	-0.95	-5.14	11.01	10.21	13.53	0.0	0.0	0.0	0.0	
0.10	F	4.79	0.88	3.35	6.24	0.85	-0.66	-5.87	11.5	1.47	9.20	1.40	1.86	1.86	1.86	
0.20	F	4.48	1.17	2.57	6.39	0.93	-0.07	-6.01	11.34	1.59	8.73	13.95	0.50	0.50	2.36	
0.30	R	3.71	1.27	1.63	7.54	1.02	-0.76	-6.40	10.3	1.60	8.27	13.52	1.04	1.04	3.4	
0.40	R	2.41	1.23	0.39	4.43	0.97	-10.54	-7.35	10.3	1.53	7.85	12.87	1.65	1.65	5.06	
0.50	W	1.33	1.62	-1.34	3.99	0.92	-11.38	-8.36	10.4	1.46	7.84	12.63	1.43	1.43	6.49	
0.60	A	1.34	1.01	-0.31	2.99	10.42	0.67	-11.53	-9.32	10.63	1.28	8.54	12.73	0.68	7.17	
0.70	R	1.65	0.77	0.38	2.91	-11.02	0.62	-12.05	-10.00	11.46	1.03	9.77	13.14	1.06	8.23	
0.80	D	2.00	0.56	1.09	2.92	-11.69	0.83	-11.05	-10.33	12.2	0.85	10.88	13.66	1.11	9.34	
0.90	U	2.17	0.44	1.45	2.89	-11.75	0.56	-12.68	-10.83	12.55	0.90	11.06	14.03	0.33	9.67	
1.00	B	2.23	0.58	1.27	3.18	-11.75	0.61	-12.75	-10.75	12.58	0.92	11.07	14.09	0.07	9.13	
0.0	6	2.23	0.58	1.27	3.18	-11.75	0.61	-12.75	-10.75	12.58	0.92	11.07	14.09	0.0	0.0	
0.10	6	2.06	0.69	0.92	3.20	-10.91	0.50	-11.74	-10.09	11.30	1.12	10.05	13.74	1.09	1.09	
0.20	R	2.47	1.12	0.64	4.30	-10.09	0.58	-11.05	-9.14	11.4	1.06	9.40	12.89	1.18	2.28	
0.30	T	2.95	1.31	0.81	5.10	-9.32	0.76	-10.57	-8.08	10.87	0.89	9.41	12.33	0.95	3.23	
0.40	E	3.72	1.41	1.41	6.02	-8.46	0.96	-10.03	-6.88	10.96	0.86	9.55	12.36	1.16	4.38	
0.50	T	4.61	1.41	2.31	6.92	-7.65	1.13	-9.50	-5.79	11.21	0.87	9.79	12.63	1.24	5.62	
0.60	U	5.26	1.15	3.38	7.14	-7.10	1.12	-9.94	-5.25	11.44	0.90	9.96	12.92	0.88	6.59	
0.70	R	5.68	0.88	4.24	7.11	-6.63	0.90	-8.10	-5.16	11.52	0.89	10.16	13.07	0.65	7.15	
0.80	N	5.85	0.82	4.51	7.20	-6.26	0.62	-6.27	-5.25	11.74	0.85	10.34	13.14	0.43	7.38	
0.90	T	6.02	0.89	4.56	7.47	-6.10	0.43	-6.81	-5.40	11.84	0.91	10.33	13.31	0.24	7.82	
1.00	7	6.19	0.85	4.81	7.58	-6.05	0.55	-6.95	-5.14	11.87	1.01	10.21	13.53	0.19	8.04	

LANDMARK - RT WRIST CENTER (26)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)				
		T SIZE, N	MEAN SE	5 PCT 95 PCT	95 PCT 5 PCT	MEAN SE	5 PCT 95 PCT	95 PCT 5 PCT	MEAN SE	5 PCT 95 PCT	95 PCT 5 PCT	MEAN SE	5 PCT 95 PCT	95 PCT 5 PCT		
0.0	F	13.74	0.82	13.88	16.56	-2.70	0.51	-3.54	-1.85	13.47	0.34	12.62	13.73	0.0	0.0	
0.10	F	13.09	0.99	12.12	15.36	-3.72	0.40	-3.37	-3.07	13.58	1.01	11.69	15.58	0.83	1.61	
0.20	O	11.88	1.40	10.79	15.39	-4.17	0.53	-5.05	-3.30	13.58	1.22	11.58	15.58	0.83	2.66	
0.30	T	9.95	1.70	9.09	14.66	-4.70	0.98	-6.34	-3.09	14.23	1.50	11.77	16.68	1.47	4.10	
0.40	W	9.95	1.62	1.62	12.60	-5.71	1.12	-7.54	-3.87	15.49	1.77	12.50	18.31	2.47	6.58	
0.50	A	8.05	1.47	5.64	10.46	-7.41	1.43	-9.75	-5.06	16.88	1.58	14.29	19.47	2.95	9.52	
0.60	R	6.43	1.76	3.54	9.31	-9.74	1.85	-12.78	-6.70	18.4	1.36	16.28	20.74	3.28	12.83	
0.70	D	6.59	0.96	5.01	8.17	-11.16	0.62	-12.17	-10.14	19.18	0.71	17.91	20.25	1.53	14.33	
0.80	N	7.22	0.88	5.78	-12.47	0.77	-13.73	-11.20	19.39	0.61	18.73	20.39	1.49	1.49	15.83	
0.90	T	7.82	0.45	7.09	8.55	-12.94	0.70	-14.08	-11.80	19.64	0.55	18.73	20.55	0.80	16.63	
1.00	7	8.04	0.48	7.25	8.83	-13.11	0.72	-14.29	-11.93	19.83	0.50	19.00	20.65	0.33	16.96	
0.0	7	8.04	0.48	7.25	8.83	-13.11	0.72	-14.29	-11.93	19.83	0.50	19.00	20.65	0.0	0.0	
0.10	R	8.09	1.14	6.22	9.96	-8.87	2.35	-12.72	-5.02	18.57	0.57	17.64	20.08	2.06	2.06	
0.20	R	9.23	1.84	6.22	12.24	-7.55	1.65	-10.26	-4.84	17.64	0.84	16.27	19.50	2.42	4.43	
0.30	E	11.17	2.08	7.77	14.58	-5.70	1.28	-7.79	-3.61	16.42	1.30	14.00	18.25	3.08	9.54	
0.40	T	13.03	1.73	10.19	15.87	-4.27	1.49	-6.72	-1.83	14.79	1.23	12.77	16.82	2.69	12.23	
0.50	U	13.83	1.32	11.63	15.97	-3.91	0.93	-5.44	-2.38	14.44	0.92	12.91	15.91	0.93	13.16	
0.60	R	14.52	0.90	13.05	15.99	-3.34	0.61	-4.35	-2.33	13.45	0.56	12.93	14.77	1.08	14.24	
0.70	N	14.93	0.72	13.75	16.10	-2.99	0.41	-3.66	-2.32	13.54	0.39	12.89	14.18	0.62	14.86	
0.80	N	15.14	1.31	13.75	16.36	-2.80	0.42	-4.49	-2.12	13.45	0.28	12.89	13.81	0.34	15.23	
0.90	7	15.22	0.82	13.88	16.56	-2.70	0.51	-3.54	-1.85	13.17	0.34	12.62	13.73	0.22	15.42	

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +13.0, -13.0, +4.8 TO HATCH RELEASE CONTROLLER AT +11.0, -13.0, +23.0 AND RETURNS. LEFT HAND REMAINS AT THROTTLE CONTROLLER AT +18.0, +10.0, +12.4.

MOTION NUMBER - 12160
BACK ANGLE - 30

SUB-MOVEMENT

-----TIME DATA-----
MEAN STD DEV RANGE

RGHT FWD	0.61	0.12	0.40	T0	0.80	SECS.
RGHT REV	0.69	0.16	0.50	TJ	0.90	SECS.

LANDMARK - SUPRASTERNALE (3)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	-2.97	1.72	-5.80	-0.14	0.70	0.57	-0.89	2.30	20.53	0.87	19.10	21.56	0.0	0.0	0.0	0.0	
0.10	T	7	-3.59	2.00	-6.87	-0.31	0.98	1.37	-1.27	3.23	20.58	0.86	19.17	21.68	0.68	0.68	0.68	0.68
F	0.20	7	-3.64	2.06	-7.02	-0.26	0.93	1.20	-1.04	2.89	20.60	0.85	19.21	21.99	0.07	0.07	0.07	0.07
O	0.30	7	-3.36	1.70	-6.15	-0.58	0.65	0.88	-0.80	2.09	20.65	0.86	19.19	22.02	0.39	1.15	1.15	1.15
R	0.40	7	-3.36	1.60	-5.98	-0.75	0.73	1.06	-1.01	2.46	20.67	0.83	19.31	22.03	0.11	0.11	0.11	0.11
W	0.50	7	-3.33	1.51	-5.80	-0.86	0.85	1.20	-1.11	2.81	20.76	0.81	19.44	22.09	0.16	0.16	0.16	0.16
A	0.60	7	-3.48	1.49	-5.93	-1.04	0.94	1.09	-0.84	2.73	20.68	0.77	19.41	21.95	0.20	0.20	0.20	0.20
R	0.70	7	-3.71	1.49	-6.16	-1.26	0.96	1.04	-0.75	2.66	20.63	0.78	19.35	21.91	0.23	0.23	0.23	0.23
D	0.80	7	-3.69	1.40	-5.98	-1.40	0.98	1.04	-0.72	2.69	20.54	0.85	19.24	22.04	0.03	1.08	1.08	1.08
O	0.90	7	-3.60	1.42	-5.93	-1.27	1.03	1.02	-0.64	2.69	20.64	0.83	19.28	22.00	0.10	1.98	1.98	1.98
L	1.00	7	-3.49	1.62	-6.14	-0.84	1.04	1.02	-0.63	2.72	20.66	0.77	19.40	21.92	0.11	2.09	2.09	2.09
0.0		7	-3.49	1.62	-6.14	-0.84	1.04	1.02	-0.63	2.72	20.66	0.77	19.40	21.92	0.0	0.0	0.0	0.0
0.10		7	-3.43	1.43	-5.78	-1.09	1.15	1.11	-0.67	2.97	20.59	0.81	19.26	21.92	0.14	0.14	0.14	0.14
0.20		7	-3.30	1.46	-5.68	-0.91	1.20	1.40	-1.09	3.49	20.59	0.85	19.20	21.98	0.15	0.15	0.15	0.15
R	0.30	7	-3.44	1.97	-6.66	-0.21	1.15	1.56	-1.41	3.71	20.61	0.81	19.26	21.93	0.15	0.43	0.43	0.43
E	0.40	7	-3.57	2.48	-7.64	0.50	1.21	1.71	-1.60	4.01	20.58	0.79	19.29	21.87	0.15	0.58	0.58	0.58
T	0.50	7	-3.48	1.97	-6.72	-0.24	1.03	1.40	-1.26	3.33	20.62	0.82	19.27	21.97	0.20	0.78	0.78	0.78
U	0.60	7	-3.22	1.66	-5.94	-0.51	0.82	1.19	-1.14	2.78	20.64	0.81	19.32	21.97	0.33	1.11	1.11	1.11
R	0.70	7	-3.14	1.66	-5.87	-0.42	0.82	1.10	-0.98	2.63	20.52	0.84	19.25	22.00	0.08	1.20	1.20	1.20
N	0.80	7	-3.13	1.62	-5.80	-0.47	0.74	1.09	-1.06	2.54	20.59	0.85	19.20	21.98	0.09	1.29	1.29	1.29
O	0.90	7	-3.11	1.65	-5.81	-0.41	0.67	1.11	-1.15	2.49	20.54	0.88	19.11	21.98	0.09	1.38	1.38	1.38
L	1.00	7	-2.97	1.72	-5.80	-0.14	0.70	0.97	-0.89	2.39	20.53	0.87	19.10	21.96	0.14	1.52	1.52	1.52

LANDMARK - RT ACROMION (4)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	-5.72	1.03	-7.42	-4.03	-7.95	0.79	-9.25	-6.65	-6.65	1.04	19.15	1.04	17.43	20.86	0.0	0.0	
O	0.10	7	-5.95	0.83	-7.31	-4.59	-7.89	0.75	-9.13	-6.66	19.33	1.09	17.54	21.12	0.30	0.30	0.30	0.30
F	0.20	7	-5.87	0.95	-7.42	-4.32	-7.59	1.06	-9.33	-5.85	19.49	1.11	17.67	21.30	0.35	0.35	0.35	0.35
O	0.30	7	-5.78	1.60	-8.40	-3.15	-7.20	1.85	-10.24	-4.16	19.59	1.16	17.69	21.49	0.41	1.05	1.05	1.05
R	0.40	7	-6.49	0.67	-7.58	-5.39	-7.66	0.87	-9.09	-6.24	19.64	1.23	17.61	21.66	0.85	1.91	1.91	1.91
U	0.50	7	-6.72	0.79	-5.43	-7.80	-8.01	0.84	-9.18	-6.42	19.74	1.30	17.61	21.87	0.29	2.20	2.20	2.20
A	0.60	7	-6.81	0.76	-8.05	-5.57	-7.68	0.78	-8.96	-6.4	19.79	1.30	17.67	21.92	0.16	2.36	2.36	2.36
R	0.70	7	-6.81	0.78	-8.09	-5.53	-7.69	0.75	-8.92	-6.45	19.84	1.29	17.73	21.95	0.04	2.40	2.40	2.40
D	0.80	7	-6.71	0.81	-8.04	-5.38	-7.60	0.64	-8.64	-6.55	19.90	1.25	17.85	21.94	0.15	2.55	2.55	2.55
O	0.90	7	-6.76	0.78	-8.04	-5.49	-7.54	0.62	-8.56	-6.53	19.94	1.24	17.88	21.96	0.08	2.63	2.63	2.63
L	1.00	7	-6.94	0.75	-8.17	-5.72	-7.53	0.67	-8.64	-6.42	19.95	1.31	17.80	22.10	0.18	2.81	2.81	2.81
0.0		7	-6.94	0.75	-8.17	-5.72	-7.53	0.67	-8.64	-6.42	19.95	1.31	17.80	22.10	0.0	0.0	0.0	0.0
0.10		7	-6.81	0.63	-8.17	-5.44	-7.63	0.83	-8.98	-6.27	19.79	1.18	17.85	21.73	0.23	0.23	0.23	0.23
O	0.20	7	-6.72	0.86	-8.14	-5.31	-7.68	0.90	-9.15	-6.21	19.55	1.15	17.77	21.54	0.17	0.40	0.40	0.40
R	0.30	7	-6.65	0.86	-8.06	-5.25	-7.73	0.86	-9.15	-6.32	19.53	1.09	17.74	21.32	0.15	0.25	0.25	0.25
E	0.40	7	-6.45	0.89	-7.91	-5.00	-7.73	0.76	-8.98	-6.49	19.47	1.07	17.72	21.22	0.21	0.76	0.76	0.76
T	0.50	7	-6.25	0.90	-7.72	-4.78	-7.74	0.73	-8.94	-6.54	19.43	1.05	17.71	21.15	0.20	0.96	0.96	0.96
U	0.60	7	-6.13	0.82	-7.47	-4.79	-7.75	0.72	-8.94	-6.57	19.29	1.08	17.51	21.06	0.19	1.15	1.15	1.15
R	0.70	7	-5.94	0.89	-7.40	-4.49	-7.76	0.77	-9.03	-6.49	19.26	1.09	17.47	21.09	0.19	1.34	1.34	1.34
N	0.80	7	-5.82	0.94	-7.37	-4.28	-7.84	0.82	-9.19	-6.50	19.22	1.09	17.44	21.00	0.15	1.49	1.49	1.49
O	0.90	7	-5.80	0.97	-7.39	-4.21	-7.95	0.78	-9.23	-6.67	19.15	1.06	17.42	20.88	0.13	1.62	1.62	1.62
L	1.00	7	-5.72	1.03	-7.42	-4.03	-7.42	0.79	-9.25	-6.65	19.15	1.04	17.43	20.86	0.08	1.70	1.70	1.70

LANDMARK - RT GRIP CENTER (16)

TIME	SAMPLE SIZE, N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	10.82	0.82	10.47	13.16	-13.38	0.61	-14.38	-12.39	4.38	0.57	3.44	5.31	0.0	0.0	0.0	0.0
0.10	7	10.88	0.74	9.67	12.10	-14.11	1.19	-16.05	-12.16	6.03	1.99	2.77	9.28	2.03	2.03	2.03	2.03
F 0.20	7	10.18	1.21	8.21	12.16	-15.05	1.93	-18.21	-11.90	8.74	2.74	4.21	13.19	4.95	4.95	4.95	4.95
O 0.30	7	9.61	1.74	6.77	12.46	-15.92	2.18	-19.50	-12.34	12.58	2.59	8.34	16.82	4.01	8.97	4.01	8.97
R 0.40	7	9.38	1.82	6.39	12.37	-15.86	1.88	-18.95	-15.92	2.08	12.55	19.36	3.38	1.235	3.38	1.235	1.235
W 0.50	7	9.35	1.76	6.47	12.23	-15.44	1.36	-17.67	-13.21	18.89	1.91	16.57	21.21	2.97	15.32	2.97	15.32
A 0.60	7	9.83	1.27	7.75	11.90	-14.83	0.85	-16.21	-13.44	20.38	0.91	18.89	21.87	1.68	17.00	1.68	17.00
D 0.70	7	10.33	0.94	8.79	11.87	-14.38	0.48	-15.17	-13.60	21.39	0.64	20.33	22.44	1.21	18.21	1.21	18.21
D 0.80	7	10.63	0.79	9.34	11.93	-14.15	0.45	-14.89	-13.41	21.74	0.61	20.71	22.71	0.50	18.71	0.50	18.71
O 0.90	7	10.66	0.69	9.54	11.79	-14.09	0.47	-14.85	-13.33	21.70	0.57	20.77	22.63	0.07	18.78	0.07	18.78
1.00	7	10.61	0.60	9.62	11.59	-14.00	0.46	-14.76	-13.25	21.55	0.63	20.52	22.58	0.18	18.96	0.18	18.96
0.0	7	10.61	0.60	9.62	11.59	-14.00	0.46	-14.76	-13.25	21.55	0.63	20.52	22.58	0.0	0.0	0.0	0.0
0.10	7	9.93	1.01	8.27	11.59	-14.72	0.88	-16.17	-13.28	19.34	1.27	17.75	21.92	1.97	1.97	1.97	1.97
R 0.20	7	9.46	1.61	6.82	12.11	-15.52	1.65	-18.22	-12.81	17.48	2.44	13.48	21.48	2.53	4.51	2.53	4.51
R 0.30	7	9.60	1.60	6.97	12.22	-15.71	1.39	-17.98	-13.43	15.27	2.35	11.41	22.22	6.73	6.73	6.73	6.73
E 0.40	7	9.81	1.22	7.81	11.81	-15.71	1.64	-18.40	-13.01	12.30	2.83	7.66	16.93	2.98	9.71	2.98	9.71
T 0.50	7	10.11	0.72	8.93	11.28	-15.15	1.64	-17.84	-12.46	9.13	3.22	3.85	14.42	3.22	12.93	3.22	12.93
U 0.60	7	10.37	0.65	9.31	11.43	-14.62	1.37	-16.86	-12.37	6.97	2.82	2.35	11.60	2.24	15.18	2.24	15.18
R 0.70	7	10.75	0.59	9.78	11.73	-14.26	1.28	-16.36	-12.16	5.80	2.13	2.31	9.29	1.28	16.46	1.28	16.46
N 0.80	7	11.21	0.65	10.64	12.28	-14.09	1.12	-15.92	-12.27	5.03	1.31	2.89	7.17	0.91	17.37	0.91	17.37
R 0.90	7	11.62	0.78	10.78	12.90	-13.74	0.82	-15.10	-12.39	4.72	0.83	3.37	6.08	0.62	17.99	0.62	17.99
1.00	7	11.82	0.82	10.47	13.16	-13.38	0.61	-14.38	-12.39	4.38	0.57	3.44	5.31	0.54	18.93	0.54	18.93

LANDMARK - RT TROCHANTER (18)

TIME	SAMPLE SIZE, N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	3.59	0.96	2.01	5.18	-7.20	1.20	-9.18	-5.23	3.74	0.66	2.65	4.82	0.0	0.0	0.0	0.0
F 0.20	7	3.31	0.92	2.03	4.97	-7.43	0.98	-9.03	-5.82	3.73	0.63	2.71	4.76	0.24	0.24	0.24	0.24
O 0.30	7	3.13	1.18	1.81	4.82	-7.63	0.99	-9.25	-6.00	3.75	0.62	2.74	4.77	0.28	0.52	0.28	0.52
R 0.40	7	3.46	0.99	1.85	5.08	-7.77	1.18	-9.70	-5.84	3.73	0.65	2.67	4.80	0.23	0.75	0.23	0.75
W 0.50	7	3.53	1.09	1.74	5.32	-7.53	0.97	-9.12	-5.93	3.74	0.65	2.67	4.80	0.41	1.16	0.41	1.16
A 0.60	7	3.53	1.14	1.65	5.41	-7.33	1.01	-8.99	-5.67	3.73	0.63	2.71	4.76	0.12	1.29	0.12	1.29
R 0.70	7	3.44	1.12	1.60	5.27	-7.36	0.97	-8.95	-5.77	3.70	0.64	2.65	4.75	0.10	1.39	0.10	1.39
D 0.80	7	3.52	1.24	1.49	5.55	-7.32	0.95	-8.88	-5.75	3.72	0.71	2.56	4.88	0.10	1.49	0.10	1.49
O 0.90	7	3.57	1.31	1.42	5.72	-7.34	0.97	-8.92	-5.76	3.73	0.74	2.51	4.94	0.05	1.59	0.05	1.59
1.00	7	3.49	1.27	1.41	5.56	-7.43	1.03	-9.12	-5.73	3.72	0.77	2.45	4.99	0.12	1.76	0.12	1.76
0.0	7	3.49	1.27	1.41	5.56	-7.43	1.03	-9.12	-5.73	3.72	0.77	2.45	4.99	0.0	0.0	0.0	0.0
0.10	7	3.45	1.02	2.02	4.88	-7.29	1.00	-8.94	-5.65	3.72	0.72	2.54	4.90	0.04	0.04	0.04	0.04
R 0.30	7	3.58	0.98	1.97	5.19	-7.31	0.97	-8.91	-5.72	3.71	0.69	2.63	4.89	0.10	0.15	0.10	0.15
E 0.40	7	3.61	1.08	1.84	5.37	-7.40	0.99	-9.03	-5.78	3.67	0.67	2.57	4.86	0.14	0.29	0.14	0.29
T 0.50	7	3.38	1.00	1.74	5.03	-7.41	1.06	-9.15	-5.67	3.70	0.64	2.53	4.81	0.11	0.40	0.11	0.40
U 0.60	7	3.46	0.57	2.52	4.40	-7.31	1.06	-9.04	-5.58	3.70	0.69	2.65	4.75	0.23	0.62	0.23	0.62
R 0.70	7	3.53	0.56	2.61	4.45	-7.26	0.90	-8.73	-5.78	3.72	0.73	2.57	4.84	0.13	0.75	0.13	0.75
N 0.80	7	3.53	0.74	2.32	4.74	-7.13	0.94	-8.67	-5.60	3.71	0.72	2.51	4.92	0.09	0.84	0.09	0.84
O 0.90	7	3.77	0.75	2.55	4.99	-7.05	1.37	-9.30	-4.79	3.70	0.69	2.58	4.83	0.12	0.96	0.12	0.96
1.00	7	3.59	0.96	2.01	5.18	-7.20	1.20	-9.18	-5.23	3.74	0.66	2.62	4.79	0.06	1.22	0.06	1.22

LANDMARK - RT KNEE TOP (20)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		T SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	W	7	20.51	4.12	13.76	-4.20	3.94	-10.66	2.25	11.48	1.14	9.61	13.35	0.0	0.0	0.0	0.0	
0.10	F	7	19.50	1.83	16.50	22.49	-5.13	2.00	-8.41	-1.86	11.42	1.06	9.70	13.16	1.38	1.38	1.38	1.38
0.20	D	7	18.92	0.51	18.08	-5.76	1.25	-7.81	-3.71	11.39	0.99	9.77	13.01	0.86	0.86	0.86	0.86	
0.30	R	7	19.00	0.42	18.22	19.75	-5.77	1.32	-7.95	-3.60	11.35	1.02	9.68	13.02	0.10	0.10	0.10	0.10
0.40	R	7	18.39	1.51	15.91	20.87	-6.23	1.79	-9.16	-3.29	11.36	0.99	9.73	12.98	0.76	0.76	0.76	0.76
0.50	A	7	17.54	3.90	11.14	23.94	-7.00	3.65	-12.98	-1.02	11.30	0.94	9.76	12.84	1.15	1.15	1.15	1.15
0.60	T	7	18.43	1.54	15.89	20.96	-6.15	1.83	-9.14	-3.15	11.33	0.95	9.76	12.89	1.23	1.23	1.23	1.23
0.70	R	7	18.93	0.53	18.07	19.80	-5.57	1.24	-7.61	-3.54	11.32	0.98	9.73	12.93	0.77	0.77	0.77	0.77
0.80	D	7	18.99	0.52	18.13	19.85	-5.57	1.29	-7.68	-3.16	11.32	0.99	9.69	12.95	0.06	0.06	0.06	0.06
0.90	U	7	18.99	0.48	18.19	19.78	-5.61	1.29	-7.72	-3.49	11.35	1.01	9.69	13.01	0.05	0.05	0.05	0.05
1.00	W	7	18.89	0.42	18.20	19.58	-5.63	1.27	-7.71	-3.54	11.40	1.02	9.74	13.07	0.12	0.12	0.12	0.12
0.0	W	7	18.89	0.42	18.20	19.58	-5.63	1.27	-7.71	-3.54	11.40	1.02	9.74	13.07	0.0	0.0	0.0	0.0
0.10	F	7	18.98	0.41	18.30	19.66	-5.59	1.32	-7.76	-3.42	11.44	1.04	9.74	13.14	0.11	0.11	0.11	0.11
0.20	R	7	19.03	0.45	18.30	19.76	-5.60	1.37	-7.85	-3.36	11.46	1.02	9.79	13.13	0.05	0.05	0.05	0.05
0.30	E	7	19.05	0.42	18.36	19.74	-5.68	1.31	-7.83	-3.54	11.44	1.01	9.78	13.09	0.09	0.09	0.09	0.09
0.40	E	7	19.02	0.46	18.46	19.77	-5.66	1.28	-7.76	-3.57	11.42	1.03	9.74	13.11	0.04	0.04	0.04	0.04
0.50	T	7	18.95	0.46	18.19	19.71	-5.60	1.30	-7.73	-3.48	11.34	0.98	9.76	12.99	0.10	0.10	0.10	0.10
0.60	U	7	19.02	0.43	18.32	19.72	-5.53	1.22	-7.54	-3.52	11.37	1.00	9.72	13.02	0.10	0.10	0.10	0.10
0.70	R	7	19.04	0.43	18.33	19.74	-5.50	1.21	-7.49	-3.52	11.38	1.04	9.67	13.09	0.03	0.03	0.03	0.03
0.80	N	7	19.02	0.51	18.18	19.85	-5.62	1.18	-7.55	-3.68	11.39	1.03	9.70	13.07	0.11	0.11	0.11	0.11
0.90	W	7	19.46	1.38	17.20	21.73	-5.26	1.72	-8.08	-2.44	11.43	1.06	9.69	13.16	0.57	0.57	0.57	0.57
1.00	W	7	20.51	4.12	13.76	27.27	-4.20	3.94	-10.66	2.25	11.48	1.14	9.61	13.35	1.49	1.49	1.49	1.49

LANDMARK - RT SHOULDER CENTER (22)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		T SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	W	7	4.03	1.18	-5.97	-2.09	0.58	0.83	-8.94	-6.22	17.44	0.66	16.36	18.51	0.0	0.0	0.0	0.0
0.10	F	7	4.31	0.88	-5.76	-2.86	-7.72	0.76	-8.96	-6.48	17.44	0.70	16.30	18.59	0.31	0.31	0.31	0.31
0.20	R	7	4.51	0.89	-5.97	-3.05	-7.79	0.71	-8.96	-6.62	17.47	0.89	16.01	18.92	0.21	0.21	0.21	0.21
0.30	R	7	4.68	0.89	-6.14	-3.22	-7.78	0.65	-8.84	-6.72	17.61	0.84	16.24	18.98	0.22	0.22	0.22	0.22
0.40	R	7	4.78	0.89	-6.23	-3.33	-7.79	0.65	-8.85	-6.73	17.7	0.81	16.44	19.11	0.20	0.20	0.20	0.20
0.50	W	7	4.75	0.84	-6.13	-3.37	-7.77	0.75	-9.01	-6.54	17.79	0.87	16.57	19.42	0.22	0.22	0.22	0.22
0.60	A	7	4.71	0.85	-6.10	-3.32	-7.77	0.71	-8.96	-6.62	18.16	0.94	16.61	19.70	0.17	0.17	0.17	0.17
0.70	R	7	4.73	0.95	-6.29	-3.16	-7.77	0.68	-8.88	-6.66	18.21	0.94	16.67	19.75	0.06	0.06	0.06	0.06
0.80	D	7	4.70	0.94	-6.25	-3.16	-7.60	0.55	-8.50	-6.70	18.28	0.94	16.74	19.82	0.19	0.19	0.19	0.19
0.90	W	7	4.76	0.83	-6.12	-3.39	-7.56	0.51	-8.40	-6.72	18.37	0.90	16.89	19.85	0.12	0.12	0.12	0.12
1.00	W	7	4.95	0.75	-6.17	-3.72	-7.57	0.57	-8.51	-6.63	18.44	0.90	16.97	19.91	0.20	0.20	0.20	0.20
0.0	W	7	4.95	0.75	-6.17	-3.72	-7.57	0.57	-8.51	-6.63	18.44	0.90	16.97	19.91	0.0	0.0	0.0	0.0
0.10	F	7	4.74	0.82	-6.08	-3.40	-7.69	0.76	-8.94	-6.44	18.20	0.85	16.81	19.59	0.34	0.34	0.34	0.34
0.20	R	7	4.67	0.85	-6.06	-3.28	-7.62	0.81	-8.96	-6.29	18.04	0.78	16.76	19.33	0.18	0.18	0.18	0.18
0.30	R	7	4.86	0.81	-6.19	-3.53	-7.61	0.80	-8.92	-6.30	17.91	0.82	16.57	19.25	0.23	0.23	0.23	0.23
0.40	E	7	4.92	0.80	-6.24	-3.61	-7.59	0.72	-8.77	-6.41	17.78	0.88	16.33	19.23	0.15	0.15	0.15	0.15
0.50	T	7	4.78	0.77	-6.05	-3.51	-7.58	0.68	-8.70	-6.47	17.66	0.74	16.45	18.87	0.19	0.19	0.19	0.19
0.60	U	7	4.55	0.81	-5.89	-3.22	-7.55	0.66	-8.64	-6.47	17.54	0.72	16.34	18.71	0.27	0.27	0.27	0.27
0.70	R	7	4.41	0.95	-5.96	-2.85	-7.57	0.64	-8.62	-6.53	17.52	0.81	16.18	18.85	0.15	0.15	0.15	0.15
0.80	N	7	4.28	1.00	-5.93	-2.63	-7.74	0.72	-8.92	-6.56	17.50	0.84	16.12	18.88	0.21	0.21	0.21	0.21
0.90	W	7	4.14	0.99	-5.92	-2.36	-7.76	0.61	-9.09	-6.43	17.44	0.75	16.21	18.68	0.15	0.15	0.15	0.15
1.00	W	7	4.03	1.18	-5.97	-2.09	-7.58	0.83	-8.94	-6.22	17.44	0.66	16.36	18.51	0.21	0.21	0.21	0.21

LANDMARK - RT ELBOW CENTER (24)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE				
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	6	-0.17	1.13	-2.01	1.68	-10.22	1.21	-12.20	-8.24	7.44	1.05	5.70	9.15	0.0	0.0	
0.10	6	-0.63	1.35	-2.84	1.58	-10.64	0.89	-12.10	-9.18	7.89	6.42	9.36	0.78	0.78	0.0	
F 0.20	6	-0.96	1.69	-3.74	1.82	-11.07	0.83	-12.43	-9.72	8.35	0.91	6.86	9.85	0.72	1.49	
O 0.30	7	-0.65	1.58	-3.23	1.94	-11.19	0.90	-12.68	-9.71	8.80	0.82	7.46	10.13	0.56	2.05	
R 0.40	7	-0.03	1.17	-1.96	1.89	-11.39	0.81	-12.71	-10.07	9.26	0.84	7.88	10.64	0.80	2.85	
W 0.50	7	0.75	1.10	-1.06	2.56	-11.79	0.65	-12.85	-10.73	10.25	0.87	8.82	11.68	1.33	4.18	
A 0.60	7	1.39	0.91	-0.10	2.87	-12.72	0.64	-13.17	-11.07	11.23	0.84	9.84	12.62	1.21	5.38	
R 0.70	7	1.86	0.75	0.63	3.09	-12.33	0.64	-13.37	-11.29	11.94	0.69	10.80	13.08	0.88	6.27	
D 0.80	7	2.18	0.74	0.96	3.40	-12.35	0.56	-13.27	-11.43	12.27	0.52	11.41	13.12	0.46	6.72	
N 0.90	7	2.22	0.74	1.00	3.43	-12.34	0.55	-13.24	-11.45	12.31	0.56	11.39	13.24	0.06	6.78	
1.00	7	2.05	0.64	1.00	3.11	-12.35	0.56	-13.27	-11.43	12.23	0.79	10.94	13.53	0.18	6.97	
0.0	7	2.05	0.64	1.00	3.11	-12.35	0.56	-13.27	-11.43	12.23	0.79	10.94	13.53	0.0	6.97	
0.10	7	1.46	0.76	0.21	2.71	-12.11	0.54	-13.00	-11.23	11.23	1.13	9.37	13.08	1.19	1.19	
0.20	7	0.76	1.12	-1.07	2.60	-11.59	0.63	-12.63	-10.56	10.49	1.27	8.01	12.17	1.43	2.63	
R 0.30	7	0.00	1.32	-2.16	2.16	-11.22	0.95	-12.77	-9.67	9.13	1.15	7.25	11.02	1.28	3.90	
E 0.40	7	-0.72	1.34	-2.92	1.48	-10.90	1.27	-12.99	-8.49	8.49	0.90	7.00	9.97	1.02	4.92	
T 0.50	7	-1.33	1.41	-3.64	0.97	-10.77	1.26	-12.84	-8.71	8.10	0.98	6.49	9.72	0.73	5.66	
U 0.60	7	-1.25	1.18	-3.17	0.68	-10.59	1.28	-12.69	-8.58	7.92	0.95	6.36	9.48	0.27	5.93	
R 0.70	7	-1.00	1.13	-2.86	0.95	-10.32	1.40	-12.62	-8.02	7.82	0.90	6.18	9.46	0.37	6.30	
N 0.80	7	-0.74	1.00	-2.38	0.90	-10.28	1.31	-12.44	-8.13	7.72	1.07	5.97	9.47	0.28	6.59	
0.90	6	-0.32	1.09	-2.11	1.46	-10.32	1.31	-12.47	-8.17	7.43	1.02	5.76	9.11	0.51	7.09	
1.00	6	-0.17	1.13	-2.01	1.68	-10.22	1.21	-12.20	-8.24	7.42	1.05	5.70	9.15	0.18	7.28	

LANDMARK - RT WRIST CENTER (26)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE				
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	7	8.36	0.62	7.34	9.39	-12.64	0.73	-13.83	-11.44	4.82	4.82	3.70	5.95	0.0	0.0	
F 0.10	7	7.50	0.87	6.07	8.93	-13.24	1.08	-15.01	-11.48	6.98	6.68	4.13	9.63	2.31	2.31	
O 0.20	7	6.92	1.52	4.42	13.88	-13.88	1.56	-16.44	-11.32	9.35	2.48	5.29	13.42	2.62	4.93	
D 0.30	7	6.59	1.76	3.69	9.48	-14.40	1.81	-17.37	-11.43	12.14	2.55	7.95	16.33	2.85	7.78	
R 0.40	7	6.48	1.74	3.63	9.33	-14.52	1.66	-17.24	-11.80	14.91	2.56	10.70	19.11	2.77	10.55	
W 0.50	7	6.59	1.66	3.87	9.31	-14.35	1.31	-16.50	-12.20	16.50	1.22	14.59	18.60	1.70	12.26	
A 0.60	7	7.10	1.35	4.88	9.31	-13.99	0.90	-15.47	-12.51	18.05	0.81	16.72	19.38	1.58	1.33	
R 0.70	7	7.55	1.10	5.75	9.35	-13.73	0.65	-15.81	-12.66	19.09	0.90	18.30	19.87	1.16	15.00	
D 0.80	7	7.84	0.89	6.38	9.30	-13.64	0.54	-16.53	-12.75	19.20	0.44	18.79	20.21	0.51	15.51	
O 0.90	7	7.91	0.77	6.64	9.37	-13.57	0.42	-14.27	-12.88	19.55	0.48	18.76	20.33	0.11	15.62	
1.00	7	7.88	0.81	6.55	9.21	-13.41	0.39	-14.06	-12.77	19.46	0.70	18.31	20.61	0.18	15.80	
0.0	7	7.98	0.81	6.55	9.21	-13.41	0.39	-14.06	-12.77	19.46	0.70	18.31	20.61	0.0	0.0	
0.10	7	7.44	1.10	5.63	9.25	-13.74	0.55	-14.64	-12.83	18.4	1.36	15.82	20.26	1.52	1.52	
R 0.20	7	7.13	1.49	4.66	9.54	-14.06	0.84	-15.44	-12.69	15.94	1.92	12.80	19.08	2.15	3.67	
E 0.30	7	7.08	1.40	4.79	9.38	-14.24	1.20	-16.22	-12.27	13.45	2.00	10.17	16.74	2.49	6.17	
T 0.40	7	7.04	1.09	5.25	8.83	-14.22	1.41	-16.53	-11.91	10.99	2.22	7.35	14.62	2.47	8.63	
U 0.50	7	6.92	0.86	5.51	8.33	-14.02	1.52	-16.52	-11.52	10.59	2.48	4.53	12.66	2.40	11.04	
R 0.60	7	7.14	0.63	8.17	8.17	-13.69	1.40	-15.99	-11.38	6.84	2.20	3.24	10.44	1.80	12.83	
R 0.70	7	7.43	0.49	6.63	8.24	-13.41	1.31	-15.56	-11.26	5.90	1.74	3.05	8.75	1.03	13.86	
N 0.80	7	7.75	0.48	6.97	8.53	-13.25	1.07	-15.00	-11.50	5.30	1.14	3.43	7.18	0.69	14.55	
O 0.90	7	8.12	0.59	7.16	9.08	-12.92	0.86	-14.33	-11.52	5.10	0.82	3.75	6.44	0.53	15.09	
1.00	7	8.36	0.62	7.34	9.39	-12.64	0.73	-13.83	-11.44	4.82	0.69	3.70	5.95	0.47	15.55	

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +18.0, +10.0, +12.4 TO HATCH RELEASE CONTROLLER AT +11.0, -13.0, +23.0 AND RETURNS. RIGHT HAND REMAINS AT STICK CONTROLLER AT +20.0, 0.0, +15.0.

MOTION NUMBER - 21260
BACK ANGLE - 30

SUB-MOVEMENT	TIME DATA			RANGE
	MEAN	STD DEV		
LEFT FWD	0.61	0.15	0.40 TO 0.80	SECS.
LEFT REV	0.67	0.14	0.50 TO 0.90	SECS.

LANDMARK - NASION

(1)

TIME T	SAMPLE SIZE, N	CO-ORDINATE - X			CO-ORDINATE - Y			CO-ORDINATE - Z		
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN
0.0	7	-0.32	1.27	-2.40	1.77	0.41	1.24	-1.62	2.44	27.84
F	0.10	-0.51	1.24	-2.55	1.53	-1.43	-3.76	0.91	28.23	1.26
F	0.20	7	-0.75	1.22	-2.75	1.25	-2.50	1.43	-0.15	28.55
O	0.30	7	-0.88	1.28	-2.97	1.22	-2.68	1.54	-5.21	1.42
R	0.40	7	-0.84	1.32	-3.00	1.32	-2.82	1.55	-0.28	28.30
N	0.50	7	-0.87	1.40	-3.09	1.42	-2.95	1.52	-5.35	1.33
A	0.60	7	-0.95	1.33	-3.13	1.24	-3.15	1.57	-5.73	26.42
R	0.70	7	-1.03	1.27	-3.11	1.05	-3.37	1.68	-6.13	28.77
D	0.80	7	-1.03	1.35	-3.24	1.18	-3.48	1.80	-6.43	28.53
O	0.90	7	-1.02	1.47	-3.43	1.38	-3.64	1.76	-6.53	28.52
R	1.00	7	-1.05	1.52	-3.55	1.44	-3.83	1.71	-6.63	1.39
								-1.03	28.65	1.42
									26.31	30.98
										0.19

LANDMARK - CERVICALE

(2)

TIME T	SAMPLE SIZE, N	CO-ORDINATE - X			CO-ORDINATE - Y			CO-ORDINATE - Z		
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN
0.0	7	-7.35	1.27	-9.44	-5.26	-0.81	0.75	-2.05	0.42	21.16
F	0.10	7	-7.23	0.87	-8.65	-5.81	-0.71	0.73	-1.91	0.49
F	0.20	7	-7.16	0.74	-8.38	-5.95	-0.56	1.17	-2.48	0.57
D	0.30	7	-7.43	0.72	-8.58	-6.23	-0.63	0.98	-2.48	0.98
R	0.40	7	-7.42	0.83	-8.78	-6.06	-0.95	0.85	-2.35	0.64
N	0.50	7	-7.29	0.88	-8.64	-5.76	-1.21	1.16	-3.11	0.69
A	0.60	7	-7.15	0.80	-8.46	-5.84	-1.23	1.27	-3.32	0.85
R	0.70	7	-7.05	0.83	-8.49	-5.62	-1.35	1.32	-3.91	0.82
J	0.80	7	-6.93	1.07	-8.68	-5.17	-1.52	1.35	-3.73	0.70
O	0.90	7	-7.13	0.96	-8.71	-5.56	-1.43	1.25	-3.46	0.63
R	1.00	7	-7.93	0.95	-8.99	-5.86	-1.27	1.29	-3.38	0.84
									22.05	1.47
									19.64	24.47
									19.65	0.0
									24.34	0.13
									24.31	0.29
									19.43	0.51
									23.97	0.22
									19.49	0.65
									23.84	0.77
									24.04	0.12
									23.75	0.90
									23.72	1.16
									23.80	1.35
									23.81	1.47
									23.83	0.25
									19.69	1.72

LANDMARK - SUPRASTERNALE { 3 }

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T 0.0	N 7	-2.49	0.81	-3.82	-1.16	1.05	1.90	1.54	20.89	0.97	19.30	22.48	0.0	0.0	0.0	0.0	0.0	
F 0.20	N 7	-2.61	0.84	-1.23	-0.22	0.40	-0.87	0.44	20.38	0.84	19.50	22.25	0.12	0.12	0.12	0.12	0.12	
O 0.30	N 7	-2.75	1.15	-4.64	-0.25	0.46	-1.01	0.51	20.89	0.85	19.50	22.27	0.15	0.27	0.15	0.27	0.27	
R 0.40	N 7	-2.83	1.31	-4.98	-0.67	-0.21	0.75	-1.43	1.02	20.30	0.83	19.54	22.27	0.09	0.36	0.09	0.36	0.36
E 0.50	N 7	-2.79	1.31	-4.94	-0.65	-0.44	0.93	-1.95	1.08	20.35	0.84	19.57	22.34	0.24	0.60	0.24	0.60	0.60
M 0.60	N 7	-2.71	1.31	-4.86	-0.56	-0.77	1.30	-2.90	1.03	21.03	0.85	19.63	22.43	0.36	0.95	0.36	0.95	0.95
A 0.60	N 7	-2.68	1.07	-4.43	-0.92	-0.67	1.26	-2.94	1.19	21.17	0.94	19.63	22.71	0.18	1.13	0.18	1.13	1.13
K 0.70	N 7	-2.66	1.08	-4.42	-0.89	-1.05	1.24	-3.08	0.98	21.28	1.02	19.61	22.95	0.21	1.34	0.21	1.34	1.34
D 0.80	N 7	-2.57	1.27	-4.65	-0.50	-1.18	1.30	-3.31	0.94	21.35	1.05	19.63	23.07	0.17	1.51	0.17	1.51	1.51
O 0.90	N 7	-2.41	1.19	-4.36	-0.46	-1.05	1.16	-2.96	0.85	21.36	1.00	19.71	23.00	0.21	1.72	0.21	1.72	1.72
I 1.00	N 7	-2.22	1.04	-3.92	-0.51	-0.91	1.40	-3.20	1.39	21.31	1.01	19.65	22.96	0.25	1.96	0.25	1.96	1.96
O .J	N 7	-2.22	1.04	-3.92	-0.51	-0.91	1.40	-3.20	1.39	21.34	1.01	19.65	22.96	0.0	0.0	0.0	0.0	0.0
O .10	N 7	-2.02	1.06	-3.76	-0.29	-0.72	1.20	-2.70	1.25	21.19	1.00	19.55	22.83	0.29	0.29	0.29	0.29	0.29
O .20	N 7	-2.03	1.02	-3.70	-0.36	-0.67	1.18	-2.60	1.25	21.08	0.96	19.50	22.65	0.12	0.41	0.12	0.41	0.41
R 0.30	N 7	-2.32	0.98	-3.94	-0.71	-0.97	0.94	-2.51	0.56	20.98	0.91	19.50	22.47	0.43	0.84	0.43	0.84	0.84
E 0.40	N 7	-2.56	0.98	-4.18	-0.95	-1.06	1.01	-2.71	0.59	20.49	0.87	19.57	22.41	0.26	1.10	0.26	1.10	1.10
T 0.50	N 7	-2.69	0.90	-4.07	-1.12	-0.93	1.16	-2.67	0.94	21.07	0.94	19.53	22.61	0.15	1.25	0.15	1.25	1.25
U 0.60	N 7	-2.64	1.14	-4.51	-0.84	-1.08	1.08	-2.61	0.93	20.33	0.93	19.40	22.47	0.17	1.42	0.17	1.42	1.42
R 0.70	N 7	-2.72	1.11	-4.55	-0.90	-0.69	1.01	-2.34	0.96	20.30	0.96	19.33	22.47	0.17	1.59	0.17	1.59	1.59
N 0.80	N 7	-2.58	0.78	-3.86	-1.30	-0.46	0.54	-2.01	1.08	20.92	0.95	19.36	22.49	0.27	1.66	0.27	1.66	1.66
O 0.90	N 7	-2.56	0.81	-3.89	-1.24	-0.34	1.00	-1.97	1.29	20.94	0.95	19.35	22.46	0.13	1.99	0.13	1.99	1.99
I 1.00	N 7	-2.49	0.81	-3.82	-1.16	-0.18	1.05	-1.90	1.54	20.89	0.97	19.30	22.48	0.17	2.17	0.17	2.17	2.17

LANDMARK - LT ACROMION { 5 }

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T 0.0	N 7	-5.83	0.96	-7.40	-4.25	7.05	0.74	5.84	8.25	21.12	1.25	19.07	23.18	0.0	0.0	0.0	0.0	0.0
F 0.10	N 7	-5.92	0.94	-7.46	-4.37	7.19	0.71	6.03	8.34	20.37	0.88	19.43	22.31	0.30	0.30	0.30	0.30	0.30
O 0.20	N 7	-6.04	0.90	-7.51	-4.57	7.34	0.81	6.00	8.67	20.49	0.80	19.49	22.12	0.21	0.50	0.21	0.50	0.50
D 0.30	N 7	-5.88	0.89	-7.35	-4.42	7.34	1.13	5.49	9.19	21.00	0.83	19.64	22.35	0.24	0.75	0.24	0.75	0.75
R 0.40	N 7	-5.48	0.84	-6.86	-4.10	7.09	1.12	5.25	8.93	21.31	0.83	19.95	22.67	0.57	1.32	0.57	1.32	1.32
W 0.50	N 7	-4.97	0.87	-6.40	-3.54	6.71	1.12	4.87	8.56	21.59	0.84	20.31	23.06	0.74	2.06	0.74	2.06	2.06
A 0.60	N 7	-4.67	0.71	-5.84	-3.50	6.42	1.14	4.56	8.28	22.32	0.89	23.48	0.53	2.59	0.53	2.59	2.59	
R 0.70	N 7	-4.41	0.68	-5.53	-3.29	6.09	1.20	4.12	8.05	22.37	0.95	20.81	23.92	0.55	3.14	0.55	3.14	3.14
D 0.80	N 7	-4.23	0.83	-5.59	-2.88	5.87	1.18	3.94	7.81	22.62	0.97	21.03	24.22	0.38	3.52	0.38	3.52	3.52
O 0.90	N 7	-4.14	0.98	-5.74	-2.54	5.67	1.12	3.83	7.50	22.80	0.96	21.23	24.37	0.29	3.01	0.29	3.01	3.01
I 1.00	N 7	-4.10	1.00	-5.80	-2.40	5.52	1.06	3.78	7.26	22.96	0.97	21.37	24.55	0.22	4.03	0.22	4.03	4.03
O .0	N 7	-4.10	1.04	-5.80	-2.40	5.52	1.06	3.78	7.26	22.96	0.97	21.37	24.55	0.0	0.0	0.0	0.0	0.0
O .10	N 7	-4.53	1.07	-6.28	-2.78	5.72	1.01	4.06	7.37	22.57	1.14	20.80	24.55	0.56	0.56	0.56	0.56	0.56
O .20	N 7	-4.95	1.16	-6.84	-3.05	5.81	1.01	4.15	7.47	22.39	1.06	20.66	24.13	0.51	1.07	0.51	1.07	1.07
R 0.30	N 7	-5.23	1.20	-7.21	-3.26	5.95	0.97	4.36	7.54	22.35	1.07	20.29	23.81	0.47	1.54	0.47	1.54	1.54
E 0.40	N 7	-5.55	1.20	-7.51	-3.58	6.11	0.95	4.55	7.67	21.31	1.13	19.96	23.65	0.42	1.56	0.42	1.56	1.56
T 0.50	N 7	-5.87	1.18	-7.79	-3.94	6.15	0.96	4.57	7.73	21.57	1.18	19.74	23.60	0.35	2.31	0.35	2.31	2.31
U 0.60	N 7	-6.06	1.34	-8.26	-3.86	6.29	0.85	4.89	7.69	21.49	1.11	19.67	23.31	0.30	2.61	0.30	2.61	2.61
R 0.70	N 7	-6.23	1.31	-8.38	-4.08	6.44	0.83	5.08	7.79	21.39	1.14	19.52	23.26	0.25	2.86	0.25	2.86	2.86
N 0.80	N 7	-6.10	0.91	-7.60	-4.60	6.60	0.78	5.32	7.88	21.32	1.22	19.32	23.31	0.22	3.08	0.22	3.08	3.08
O 0.90	N 7	-5.96	0.87	-7.38	-4.54	6.79	0.77	5.54	8.05	21.21	1.26	19.14	23.28	0.26	3.34	0.26	3.34	3.34
I 1.00	N 7	-5.83	0.96	-7.40	-4.25	7.05	0.74	5.84	8.25	21.12	1.25	19.07	23.18	0.30	3.64	0.30	3.64	3.64

LANDMARK - LT GRIP CENTER (17)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	16.60	0.63	15.56	17.64	10.59	0.44	9.86	11.32	12.92	0.49	12.12	13.72	0.0	0.0	0.0	0.0
0.10	F	15.47	0.79	14.18	16.76	7.49	1.61	4.84	10.14	15.53	0.45	14.79	16.27	4.20	4.20	4.20	4.20
F	O.20	14.96	1.83	11.95	17.96	4.64	3.02	-0.31	9.60	17.81	1.29	15.69	19.93	7.69	7.69	7.69	7.69
R	O.30	13.99	2.07	10.60	17.38	1.24	3.66	-4.75	7.24	20.15	1.65	17.46	22.86	4.24	4.24	4.24	4.24
R	O.40	13.64	1.18	11.71	15.56	-1.07	2.25	-4.76	2.63	21.04	1.06	19.15	22.94	1.213	1.213	1.213	1.213
R	O.50	13.03	0.90	11.56	14.50	-6.39	2.14	-7.90	-0.89	22.30	1.03	20.61	23.94	1.463	1.463	1.463	1.463
A	A	12.27	0.83	10.91	13.64	-7.16	2.29	-10.91	-3.40	22.35	0.42	22.16	23.54	1.824	1.824	1.824	1.824
R	R	11.73	1.06	10.00	13.47	-9.12	2.09	-12.55	-5.70	23.15	0.26	22.74	23.58	2.116	2.116	2.116	2.116
D	O.80	11.55	1.10	9.74	13.37	-10.37	1.61	-13.01	-7.74	23.33	0.34	22.77	23.89	2.322	2.322	2.322	2.322
O.90	N	11.30	1.11	9.49	13.11	-11.43	0.87	-12.85	-10.01	23.26	0.23	22.88	23.64	1.27	1.27	1.27	1.27
1.00	4	11.22	1.13	9.36	13.08	-11.69	1.24	-13.72	-9.65	23.26	0.25	22.85	23.68	0.27	0.27	0.27	0.27
0.0	4	11.22	1.13	9.36	13.08	-11.69	1.24	-13.72	-9.65	23.26	0.25	22.85	23.68	0.0	0.0	0.0	0.0
0.10	4	11.47	1.25	9.53	13.53	-10.41	1.02	-12.08	-8.73	23.22	0.06	23.13	23.32	1.31	1.31	1.31	1.31
0.20	4	11.73	1.73	8.89	14.57	-8.44	1.28	-10.55	-6.34	23.06	0.59	24.03	1.99	3.29	3.29	3.29	3.29
R	O.30	12.20	1.73	9.37	15.03	-4.89	1.65	-7.59	-2.13	22.57	1.15	20.78	24.57	3.60	3.60	3.60	3.60
E	O.40	7	13.27	1.91	10.13	16.41	-1.35	1.64	-4.03	21.54	1.30	19.47	23.72	3.86	3.86	3.86	3.86
T	O.50	7	14.06	1.99	10.80	17.33	1.99	2.12	-1.49	20.16	1.52	17.67	22.65	14.47	14.47	14.47	14.47
U	O.60	7	15.01	1.73	12.18	17.85	5.15	1.74	2.30	8.00	18.34	1.28	20.44	3.77	18.24	18.24	18.24
R	O.70	6	15.26	1.33	13.08	17.44	7.56	1.39	5.28	9.85	16.45	0.88	15.00	17.89	3.07	21.31	21.31
N	O.80	6	15.82	0.97	14.23	17.41	9.14	0.54	7.60	10.68	14.97	0.64	13.92	16.02	2.23	23.55	23.55
O.90	5	16.30	0.96	14.72	17.87	10.22	0.33	9.67	10.77	13.76	0.53	12.90	14.62	1.69	25.24	25.24	
1.00	5	16.60	0.63	15.56	17.64	10.59	0.44	9.86	11.32	12.92	0.49	12.72	13.72	0.97	26.21	26.21	

LANDMARK - LT TROCHANTER (19)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	3.31	0.71	2.14	4.47	6.79	0.73	5.59	8.03	3.59	0.53	2.73	4.46	0.0	0.0	0.0	0.0	
O.10	F	3.32	0.60	2.33	4.31	6.74	0.64	5.70	7.78	3.55	0.48	2.78	4.33	0.07	0.07	0.07	0.07	
O.20	R	3.28	0.63	2.24	4.32	6.82	0.64	5.77	7.87	3.54	0.45	2.76	4.25	0.10	0.10	0.10	0.10	
O.30	O	3.12	0.81	1.79	4.44	6.97	0.83	5.60	8.33	3.47	0.44	2.76	4.19	0.22	0.22	0.22	0.22	
R	O.40	7	3.14	0.83	1.79	4.50	6.86	0.83	5.51	8.22	3.49	0.43	2.79	4.19	0.11	0.11	0.11	0.11
W	O.50	7	3.20	0.68	2.08	4.32	6.73	0.70	5.58	7.89	3.54	0.45	2.77	4.25	0.14	0.14	0.14	0.14
A	O.60	7	3.13	0.71	1.98	4.29	6.59	0.93	5.06	8.11	3.50	0.49	2.79	4.41	0.18	0.18	0.18	0.18
R	O.70	7	3.14	0.70	1.99	4.30	6.52	1.02	4.84	8.19	3.02	0.48	2.84	4.40	0.08	0.08	0.08	0.08
D	O.80	7	3.18	0.68	2.06	4.30	6.54	0.94	5.01	8.08	3.51	0.42	2.91	4.30	0.05	0.05	0.05	0.05
O.90	7	3.22	0.62	2.20	4.23	6.61	0.82	5.27	7.95	3.59	0.43	2.89	4.29	0.08	0.08	0.08	0.08	
1.00	7	3.25	0.56	2.33	4.17	6.64	0.82	5.30	7.98	3.58	0.46	2.82	4.34	0.05	0.05	0.05	0.05	
0.0	7	3.25	0.56	2.33	4.17	6.64	0.82	5.30	7.98	3.58	0.46	2.82	4.34	0.0	0.0	0.0	0.0	
O.10	R	3.24	0.57	2.30	4.19	6.64	0.68	5.53	7.75	3.58	0.47	2.81	4.36	0.01	0.01	0.01	0.01	
O.20	R	3.13	0.65	2.07	4.20	6.60	0.56	5.68	7.52	3.50	0.46	2.84	4.36	0.12	0.12	0.12	0.12	
O.30	T	3.10	0.74	1.88	4.31	6.68	0.55	5.77	7.59	3.58	0.47	2.81	4.35	0.09	0.09	0.09	0.09	
O.40	E	7	3.10	0.74	1.89	4.31	6.69	0.70	5.55	7.84	3.57	0.43	2.86	4.27	0.22	0.22	0.22	0.22
T	O.50	7	3.09	0.71	1.93	4.25	6.57	0.93	4.95	8.18	3.50	0.43	2.83	4.30	0.13	0.13	0.13	0.13
U	O.60	7	3.13	0.63	2.11	4.16	6.60	0.88	5.16	8.05	3.52	0.50	2.70	4.34	0.46	0.46	0.46	0.46
R	O.70	7	3.09	0.75	1.85	4.32	6.65	0.79	5.35	7.95	3.52	0.55	2.61	4.43	0.07	0.07	0.07	0.07
N	O.80	7	3.14	0.99	1.52	4.75	6.68	0.85	5.29	8.07	3.50	0.49	2.79	4.41	0.10	0.10	0.10	0.10
O.90	7	3.20	0.81	1.87	4.52	6.71	0.78	5.42	7.78	3.54	0.49	2.81	4.41	0.07	0.07	0.07	0.07	
1.00	7	3.31	0.71	2.14	4.47	6.73	0.73	5.59	8.00	3.59	0.53	2.73	4.40	0.14	0.14	0.14	0.14	

MVMT NU. 2,260/30

LANDMARK - LT KNEE TOP (21)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	19.26	0.52	18.40	20.12	5.52	0.69	4.39	6.65	11.87	1.14	10.00	13.74	0.0	0.0	11.14	13.65
0.0	5	19.17	0.42	18.49	19.86	5.51	0.72	4.32	6.70	11.79	1.13	9.93	13.00	0.11	0.11	11.13	13.00
0.10	F	19.11	0.24	18.72	19.50	5.56	0.90	4.07	7.04	11.56	1.12	9.72	13.40	0.24	0.30	11.56	13.40
0.20	D	18.94	0.44	18.22	19.66	5.54	0.94	4.00	7.09	11.29	1.38	9.02	13.56	0.32	0.67	11.38	13.56
0.30	R	19.03	0.43	18.31	19.74	5.48	0.92	3.97	6.99	11.31	1.39	9.03	13.59	0.11	0.78	11.39	13.59
0.40	W	19.12	0.59	18.16	20.08	5.44	0.91	3.95	7.03	11.32	1.40	9.03	13.62	0.11	0.89	11.39	13.62
0.50	A	19.06	0.45	18.32	19.80	5.28	1.05	3.56	7.03	11.34	1.39	9.06	13.62	0.17	1.06	11.36	13.62
0.60	R	19.04	0.41	18.36	19.71	5.16	1.08	3.39	6.93	11.36	1.36	9.13	13.59	0.13	1.19	11.36	13.59
0.70	D	19.07	0.49	18.27	19.88	5.21	1.02	3.54	6.89	11.36	1.35	9.16	13.57	0.07	1.25	11.35	13.57
0.80	N	19.13	0.53	18.26	19.99	5.30	1.02	3.63	6.98	11.33	1.37	9.09	13.57	0.11	1.36	11.33	13.57
0.90	W	19.23	0.53	18.36	20.10	5.36	1.05	3.64	7.08	11.29	1.40	9.00	13.58	0.13	1.49	11.32	13.58
1.00	T	19.07	0.52	18.32	19.80	5.28	1.05	3.64	7.08	11.29	1.40	9.00	13.58	0.13	1.49	11.32	13.58

LANDMARK - LT SHOULDER CENTER (23)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	19.26	0.69	5.11	-2.84	7.45	1.09	5.66	9.24	19.24	1.21	17.22	21.19	0.0	0.0	17.22	21.19
0.10	5	19.12	0.58	18.17	20.07	5.50	0.81	4.16	6.83	11.33	1.40	9.04	13.63	0.08	0.19	11.33	13.63
0.20	F	19.23	0.52	18.38	20.08	5.51	0.84	4.13	6.88	11.68	1.16	9.78	13.59	0.37	0.56	11.68	13.59
0.30	R	19.22	0.52	18.37	20.08	5.37	0.72	4.19	6.55	11.58	1.14	9.81	13.56	0.14	0.69	11.58	13.56
0.40	E	19.14	0.61	18.14	20.13	5.21	0.67	4.12	6.31	11.68	1.12	9.84	13.52	0.18	0.88	11.68	13.52
0.50	T	19.19	0.52	18.33	20.05	5.38	0.66	4.30	6.45	11.62	1.19	9.67	13.56	0.18	1.06	11.62	13.56
0.60	U	19.24	0.66	18.15	20.32	5.42	0.68	4.30	6.55	11.81	1.20	9.84	13.77	0.20	0.20	11.81	13.77
0.70	R	19.24	0.66	18.37	20.03	5.59	0.80	4.27	6.90	11.78	1.15	9.89	13.67	0.25	1.51	11.78	13.67
0.80	N	19.42	0.47	18.82	20.09	5.57	0.73	4.37	6.77	11.81	1.12	9.97	13.65	0.08	1.59	11.81	13.65
0.90	W	19.35	0.45	18.61	20.09	5.52	0.69	4.39	6.65	11.87	1.14	10.00	13.74	0.12	1.71	11.87	13.74
1.00	T	19.26	0.52	18.40	20.12	5.52	1.05	3.64	7.08	11.29	1.40	9.00	13.58	0.13	1.49	11.32	13.58

LANDMARK - LT ELBOW CENTER (25)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	3.57	0.62	2.55	4.59	11.73	0.82	10.39	13.08	13.75	1.10	1.10	11.94	15.56	0.0	0.0	0.0	0.0
0.10	F	3.64	0.82	2.30	4.98	10.82	0.30	10.23	11.31	13.27	1.20	1.29	15.24	1.04	1.04	1.04	1.04	1.04
0.20	R	3.87	1.11	2.05	5.70	9.84	0.62	8.82	10.86	13.27	1.33	1.33	11.09	15.46	1.01	1.01	1.01	1.01
0.30	E	4.47	1.45	2.09	6.84	8.52	0.90	7.05	10.00	13.93	1.60	1.60	11.31	16.54	1.58	1.58	1.58	1.58
0.40	A	5.50	1.25	3.34	7.45	6.89	1.32	4.72	6.98	14.87	1.82	1.82	11.89	17.86	2.11	2.11	2.11	2.11
0.50	M	6.25	0.85	4.86	7.64	4.76	1.35	2.54	6.98	15.95	1.86	1.86	12.91	19.00	2.54	2.54	2.54	2.54
0.60	A	6.47	0.65	5.41	7.54	3.05	1.48	0.63	5.47	16.84	1.73	1.73	14.01	19.68	1.94	1.94	1.94	1.94
0.70	R	6.52	0.53	5.64	7.39	1.56	1.47	0.84	3.97	17.51	1.63	1.63	14.94	20.28	1.67	1.67	1.67	1.67
0.80	D	6.50	0.60	5.52	7.48	0.54	1.38	-1.73	2.05	17.98	1.56	1.56	15.41	20.54	1.09	1.09	1.09	1.09
0.90	N	6.44	0.53	5.57	7.31	-0.00	1.25	-2.06	18.24	1.49	1.49	15.76	20.66	0.59	0.59	0.59	0.59	
1.00	M	6.45	0.43	5.74	7.16	-0.40	1.07	-2.16	1.36	18.35	1.43	1.43	16.01	20.70	0.42	0.42	0.42	0.42
0.0	U	6.45	0.43	5.74	7.16	-0.40	1.07	-2.16	1.36	18.35	1.43	1.43	16.01	20.70	0.0	0.0	0.0	0.0
0.10	F	6.34	0.50	5.52	7.15	0.67	0.57	-0.27	1.61	18.29	1.38	1.38	16.03	20.56	1.08	1.08	1.08	1.08
0.20	R	6.19	0.64	5.15	7.24	2.40	0.55	1.50	3.29	17.83	1.35	1.35	15.62	20.04	1.79	1.79	1.79	1.79
0.30	E	5.93	1.04	4.28	7.68	4.66	0.82	3.31	6.02	16.71	1.51	1.51	14.24	19.19	2.53	2.53	2.53	2.53
0.40	A	5.43	1.29	3.31	7.55	6.77	1.05	5.05	8.49	15.77	1.56	1.56	13.22	18.33	2.37	2.37	2.37	2.37
0.50	T	4.67	1.34	2.47	6.87	8.60	1.26	6.33	10.68	15.01	1.68	1.68	12.25	17.77	9.90	9.90	9.90	9.90
0.60	U	3.94	1.27	1.87	6.02	10.05	1.18	8.11	11.99	14.48	1.67	1.67	11.74	17.21	1.71	1.71	1.71	1.71
0.70	R	3.46	1.06	1.72	5.19	11.32	1.07	9.27	12.77	14.34	1.60	1.60	11.68	16.14	1.09	1.09	1.09	1.09
0.80	N	3.47	0.55	2.57	4.37	11.57	0.96	10.00	13.14	14.27	1.40	1.40	11.98	16.57	0.56	0.56	0.56	0.56
0.90	M	3.53	0.34	2.97	4.09	11.79	0.81	10.46	13.12	14.12	1.21	1.21	12.14	16.10	0.27	0.27	0.27	0.27
1.00	F	3.57	0.62	2.55	4.59	11.73	0.82	10.39	13.08	13.75	1.10	1.10	11.94	15.56	0.38	0.38	0.38	0.38

LANDMARK - LT WRIST CENTER (27)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	13.48	0.71	12.33	14.64	10.92	0.09	10.77	11.08	12.95	0.86	0.86	11.55	14.36	0.0	0.0	0.0	0.0
0.10	F	12.68	1.19	10.72	14.64	8.62	1.28	6.51	10.72	14.71	0.83	0.83	13.36	16.06	3.01	3.01	3.01	3.01
0.20	R	12.01	1.70	10.79	15.79	5.94	2.06	2.21	9.67	16.58	1.13	1.13	14.72	18.43	6.34	6.34	6.34	6.34
0.30	O	11.52	2.13	8.03	15.01	2.84	2.93	-1.97	7.65	18.49	1.39	1.39	16.21	20.78	3.68	3.68	3.68	3.68
0.40	R	11.68	1.36	9.45	13.91	-0.11	3.58	-5.99	5.77	19.78	1.47	1.47	17.37	22.19	3.23	3.23	3.23	3.23
0.50	W	11.23	1.07	9.48	12.99	-2.46	2.08	-0.88	0.95	20.79	1.14	1.14	18.92	22.67	2.60	2.60	2.60	2.60
0.60	A	10.68	0.73	9.48	11.89	-4.90	2.08	-8.30	-1.50	21.34	0.61	0.61	20.35	22.33	2.56	2.56	2.56	2.56
0.70	R	10.25	0.63	9.22	11.29	-6.72	1.94	-9.90	-3.54	21.82	0.26	0.26	21.39	22.24	1.93	1.93	1.93	1.93
0.80	D	10.06	0.67	8.96	11.16	-7.81	1.57	-10.40	-5.23	22.34	0.23	0.23	21.66	22.41	1.13	1.13	1.13	1.13
0.90	M	9.94	0.70	8.80	11.09	-8.84	0.92	-10.36	-7.33	22.48	0.14	0.14	21.85	22.31	1.04	1.04	1.04	1.04
1.00	F	9.37	0.70	8.72	11.02	-9.23	0.96	-10.80	-7.66	22.13	0.15	0.15	21.88	22.38	0.0	0.0	0.0	0.0
0.0	U	9.87	0.70	8.72	11.02	-9.23	0.96	-10.80	-7.66	22.13	0.15	0.15	21.88	22.38	0.0	0.0	0.0	0.0
0.10	R	9.98	0.90	8.51	11.45	-7.98	1.06	-9.72	-6.25	22.03	0.25	0.25	21.63	22.44	1.26	1.26	1.26	1.26
0.20	O	10.18	1.32	8.02	12.35	-6.07	1.51	-8.54	-3.60	21.57	0.69	0.69	20.44	22.70	1.97	1.97	1.97	1.97
0.30	R	10.88	1.36	8.64	13.11	-2.99	1.78	-5.91	-0.07	20.91	1.20	1.20	18.95	22.89	3.23	3.23	3.23	3.23
0.40	E	11.65	1.54	9.13	14.17	0.55	1.66	-2.17	3.28	19.76	1.21	1.21	17.77	21.74	3.81	3.81	3.81	3.81
0.50	T	11.87	1.59	9.27	14.47	3.58	2.13	0.08	7.07	18.42	1.44	1.44	16.09	20.82	3.30	3.30	3.30	3.30
0.60	U	12.34	1.77	9.43	15.24	7.57	3.34	2.09	13.05	16.57	1.66	1.66	13.55	19.29	4.44	4.44	4.44	4.44
0.70	R	12.24	0.98	10.64	13.84	8.79	1.06	7.05	10.54	15.75	1.52	1.52	13.26	18.24	1.46	1.46	1.46	1.46
0.80	N	12.62	0.57	11.69	13.55	10.11	0.60	9.13	11.10	14.71	1.33	1.33	13.33	16.89	1.72	1.72	1.72	1.72
0.90	M	12.92	0.35	12.34	13.49	10.79	0.43	10.13	11.46	13.84	1.06	1.06	12.00	15.55	1.17	1.17	1.17	1.17
1.00	F	13.48	0.74	12.33	14.64	10.92	0.09	10.77	11.03	12.95	0.86	0.86	11.55	14.36	3.41	3.41	3.41	3.41

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +18.0, +10.0, +12.4 TO HATCH RELEASE CONTROLLER AT +11.0, -13.0, +23.0 AND RETURNS. RIGHT HAND REMAINS AT SIDE-ARM CONTROLLER AT +13.0, -13.0, +4.8.

MOTION NUMBER - 22260
BACK ANGLE - 30

SUB-MOVEMENT	TIME DATA			RANGE
	MEAN	STD DEV		
LEFT FWD	0.69	0.13	0.50 TO 0.90	SECS.
LEFT REV	0.66	0.11	0.50 TO 0.80	SECS.

LANDMARK - NASTION

(1)

TIME	SAMPLE SIZE, N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-0.17	1.17	-2.09	1.75	0.38	1.13	-1.48	2.24	27.17	1.42	24.83	29.50	0.0	0.0	0.0	0.0
F 0.10	7	-0.37	1.64	-3.06	2.32	-1.05	1.22	-3.04	0.95	27.89	0.97	26.29	29.48	1.61	1.61	1.61	1.61
F 0.20	7	-0.64	1.89	-3.73	2.45	-2.07	1.07	-3.82	-0.31	28.27	1.08	26.54	30.01	2.74	2.74	2.74	2.74
R 0.30	7	-0.85	1.80	-3.80	2.09	-2.48	1.15	-4.37	-0.59	28.35	1.18	26.42	30.28	0.47	0.47	0.47	0.47
R 0.40	7	-0.88	1.80	-3.83	2.07	-2.61	1.16	-4.52	-0.70	28.44	1.19	26.49	30.40	0.16	0.16	0.16	0.16
R 0.50	7	-1.03	2.04	-4.38	2.32	-2.71	1.23	-4.73	-0.69	28.48	1.22	26.49	30.48	0.18	0.18	0.18	0.18
A 0.60	7	-1.07	1.95	-4.27	2.12	-2.77	1.45	-5.15	-0.39	28.53	1.19	26.58	30.48	0.09	0.09	0.09	0.09
R 0.70	7	-0.97	1.73	-3.81	1.88	-2.82	1.47	-5.24	-0.41	28.54	1.14	26.67	30.41	0.12	0.12	0.12	0.12
D 0.80	7	-1.15	1.83	-4.14	1.84	-3.11	1.48	-5.54	-0.68	28.53	1.21	26.55	30.51	0.34	0.34	0.34	0.34
N 0.90	7	-1.08	1.70	-3.86	1.71	-3.35	1.70	-6.14	-0.56	28.52	1.30	26.38	30.66	0.25	0.25	0.25	0.25
1.00	7	-0.87	1.38	-3.13	1.38	-3.47	1.79	-6.41	-0.53	28.46	1.51	25.99	30.93	0.24	0.24	0.24	0.24
0.0	7	-0.87	1.38	-3.13	1.38	-3.47	1.79	-6.41	-0.53	28.46	1.51	25.99	30.93	0.0	0.0	0.0	0.0
0.10	7	-0.76	1.25	-2.82	1.29	-1.64	1.71	-4.44	1.16	27.73	1.22	25.73	29.73	1.97	1.97	1.97	1.97
R 0.20	7	-0.66	1.32	-2.83	1.51	-0.68	2.00	-3.95	2.60	27.36	1.26	25.29	29.44	1.04	1.04	1.04	1.04
R 0.30	7	-0.65	1.27	-2.73	1.44	-0.70	1.98	-3.95	2.54	27.38	1.27	25.30	29.46	0.03	0.03	0.03	0.03
E 0.40	7	-0.58	1.16	-2.49	1.33	-0.59	1.97	-3.83	2.65	27.34	1.27	25.27	29.42	0.14	0.14	0.14	0.14
T 0.50	7	-0.53	1.25	-2.59	1.52	-0.53	1.98	-3.77	2.71	27.26	1.29	25.14	29.38	0.11	0.11	0.11	0.11
O 0.60	7	-0.45	1.13	-2.30	1.40	-0.48	1.64	-3.18	2.22	27.24	1.29	25.12	29.36	0.10	0.10	0.10	0.10
R 0.70	7	-0.44	1.14	-2.30	1.43	-0.32	1.40	-2.61	1.98	27.26	1.33	25.08	29.43	0.17	0.17	0.17	0.17
N 0.80	7	-0.42	1.17	-2.34	1.50	-0.03	1.30	-2.16	2.10	27.26	1.42	24.92	29.59	0.28	0.28	0.28	0.28
N 0.90	7	-0.31	1.20	-2.28	1.66	-0.19	1.22	-1.81	2.20	27.23	1.46	24.83	29.62	0.25	0.25	0.25	0.25
1.00	7	-0.17	1.17	-2.09	1.75	0.38	1.13	-1.48	2.24	27.17	1.42	24.83	29.50	0.33	0.33	0.33	0.33

LANDMARK - CERVICALE

(2)

TIME	SAMPLE SIZE, N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
O 0	7	-7.19	1.00	-8.82	-5.55	0.77	0.69	1.90	21.14	1.57	19.57	23.72	0.0	0.0	0.0	0.0	
O 10	7	-7.56	1.23	-9.58	-5.54	-0.49	0.68	-1.60	0.36	21.39	1.15	19.50	23.28	0.53	0.53	0.53	0.53
F 0.20	7	-7.86	1.53	-10.37	-5.35	-0.47	0.80	-1.79	0.85	21.59	1.07	19.84	23.35	0.37	0.37	0.37	0.37
D 0.30	7	-7.80	1.62	-10.45	-5.14	-0.64	0.76	-1.90	0.61	21.59	1.10	19.79	23.39	0.19	0.19	0.19	0.19
R 0.40	7	-7.68	1.52	-10.18	-5.19	-0.70	0.78	-1.98	0.57	21.61	1.11	19.79	23.42	0.13	0.13	0.13	0.13
W 0.50	7	-7.71	1.44	-10.08	-5.35	-0.83	0.79	-2.14	0.47	21.72	1.18	19.78	23.66	0.18	0.18	0.18	0.18
O 0.60	7	-7.46	1.52	-9.94	-5.98	-0.94	0.94	-2.52	0.56	21.79	1.23	19.77	23.81	0.31	0.31	0.31	0.31
R 0.70	7	-7.12	1.54	-9.65	-4.58	-1.21	1.13	-3.06	0.64	21.75	1.25	19.70	23.79	0.41	0.41	0.41	0.41
D 0.80	7	-7.21	1.38	-9.47	-4.94	-1.37	1.07	-3.12	0.39	21.77	1.20	19.80	23.75	0.18	0.18	0.18	0.18
O 90	7	-7.09	1.30	-9.23	-4.96	-1.62	1.12	-3.45	0.22	21.87	1.25	19.81	23.92	0.29	0.29	0.29	0.29
1.00	7	-6.90	1.28	-9.17	-4.63	-1.79	1.15	-3.67	0.10	21.87	1.42	19.54	24.20	0.26	0.26	0.26	0.26
O 0	7	-6.90	1.38	-9.17	-4.63	-1.79	1.15	-3.67	0.10	21.87	1.42	19.54	24.20	0.0	0.0	0.0	0.0
O 10	7	-7.19	1.33	-9.37	-5.01	-1.61	1.09	-3.39	0.18	21.53	1.58	18.95	24.12	0.48	0.48	0.48	0.48
O 20	7	-7.38	1.27	-9.47	-5.30	-1.46	1.01	-3.12	0.20	21.36	1.80	18.41	24.31	0.30	0.30	0.30	0.30
R 0.30	7	-7.43	1.22	-9.44	-5.42	-1.43	0.91	-2.91	0.06	21.33	1.77	18.42	24.23	0.07	0.07	0.07	0.07
E 0.40	7	-7.52	1.08	-9.34	-5.74	-1.34	0.88	-2.77	0.10	21.26	1.71	18.46	24.06	0.14	0.14	0.14	0.14
T 0.50	7	-7.63	1.10	-9.42	-5.83	-1.36	0.98	-2.97	0.26	21.19	1.71	18.38	23.99	1.12	1.12	1.12	1.12
U 0.60	7	-7.43	0.87	-8.85	-6.01	-1.20	0.83	-2.85	-0.14	21.18	1.71	18.37	23.98	0.24	0.24	0.24	0.24
R 0.70	7	-7.36	0.83	-8.73	-5.99	-1.36	0.80	-2.68	-0.05	21.20	1.70	18.41	23.99	0.16	0.16	0.16	0.16
N 0.80	7	-7.48	0.78	-8.76	-6.20	-1.11	0.61	-2.11	-0.10	21.19	1.69	18.41	23.96	0.28	0.28	0.28	0.28
O 90	7	-7.41	0.77	-8.68	-6.14	-0.93	0.63	-1.96	0.10	21.16	1.63	18.50	23.83	0.19	0.19	0.19	0.19
1.00	7	-7.19	1.00	-8.82	-5.55	-0.77	0.69	-1.90	0.36	21.14	1.57	18.57	23.72	0.27	0.27	0.27	0.27

LANDMARK - SUPRASTERNAL E (3)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	-2.61	1.35	-4.83	-0.39	-0.47	0.73	-1.68	0.73	20.32	0.89	18.86	21.79	0.0	0.0	0.0	0.0	
0.10	N	7	-3.03	1.39	-5.32	-0.74	-0.47	0.73	-1.67	0.72	20.56	0.74	19.35	21.77	0.49	0.49	0.49	0.49
F	0.20	7	-3.26	1.48	-5.69	-0.83	-0.57	0.96	-2.15	1.00	20.69	0.90	19.22	22.16	0.77	0.77	0.77	0.77
R	0.30	7	-2.90	1.10	-4.71	-1.09	-0.46	0.79	-1.75	0.83	20.67	0.88	19.22	22.12	0.38	0.38	0.38	0.38
R	0.40	7	-2.75	1.20	-4.72	-0.78	-0.58	0.92	-2.10	0.93	20.78	0.85	19.38	22.17	0.23	0.23	0.23	0.23
M	0.50	7	-2.87	1.38	-5.13	-0.61	-0.79	1.02	-2.46	0.88	20.90	0.97	19.32	22.49	0.27	0.27	0.27	0.27
A	0.60	7	-2.89	1.11	-4.71	-1.08	-0.89	1.13	-2.74	0.97	20.96	1.13	19.12	22.81	0.12	0.12	0.12	0.12
R	0.70	7	-2.81	0.67	-3.22	-1.12	-1.22	1.21	-3.21	0.76	21.04	1.12	19.21	22.88	0.36	0.36	0.36	0.36
D	0.80	7	-2.90	0.68	-4.02	-1.79	-1.51	1.24	-3.54	0.52	21.07	1.13	19.22	22.92	0.30	0.30	0.30	0.30
N	0.90	7	-2.81	0.71	-3.97	-1.65	-1.75	1.24	-3.78	0.28	21.08	1.18	19.15	23.01	0.26	0.26	0.26	0.26
1.00	T	-2.49	0.77	-3.75	-1.23	-1.87	1.18	-2.74	0.97	21.19	1.08	19.41	22.97	0.36	0.36	0.36	0.36	
0.0		7	-2.49	0.77	-3.75	-1.23	-1.87	1.18	-3.80	0.07	21.19	1.13	19.12	22.81	0.12	0.12	0.12	0.12
0.10		7	-2.33	1.06	-4.06	-0.59	-1.45	1.22	-3.44	0.54	20.35	1.00	19.21	22.49	0.57	0.57	0.57	0.57
0.20		7	-2.29	1.28	-4.40	-0.18	-1.20	1.28	-3.30	0.89	20.68	1.11	18.86	22.51	0.30	0.30	0.30	0.30
R	0.30	7	-2.47	1.30	-4.60	-0.33	-1.21	1.11	-3.03	0.60	20.62	1.06	18.89	22.36	0.19	0.19	0.19	0.19
E	0.40	7	-2.52	1.19	-4.47	-0.58	-1.10	1.02	-2.77	0.57	20.54	1.07	18.78	22.30	0.15	0.15	0.15	0.15
T	0.50	7	-2.63	1.14	-4.51	-0.76	-1.05	1.12	-2.88	0.78	20.43	1.09	18.69	22.18	0.16	0.16	0.16	0.16
U	0.60	7	-2.77	1.25	-4.82	-0.72	-1.11	0.82	-2.45	0.23	20.37	1.03	18.68	22.06	0.16	0.16	0.16	0.16
R	0.70	7	-2.92	1.51	-5.41	-0.44	-0.99	0.64	-2.04	0.06	20.34	0.99	18.71	21.96	0.20	0.20	0.20	0.20
N	0.80	7	-2.93	1.53	-5.43	-0.43	-0.72	0.61	-2.28	0.28	20.30	0.97	18.70	21.89	0.27	0.27	0.27	0.27
0.90	T	7	-2.81	1.45	-5.19	-0.44	-0.57	0.66	-1.65	0.51	20.30	0.94	18.75	21.84	0.19	0.19	0.19	0.19
1.00		7	-2.61	1.35	-4.83	-0.39	-0.47	0.73	-2.68	0.73	20.32	0.89	18.86	21.79	0.23	0.23	0.23	0.23

LANDMARK - LT ACRMION (5)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	-5.51	1.43	-7.85	-3.18	7.05	1.16	5.15	8.94	20.20	1.54	17.68	22.73	0.0	0.0	0.0	0.0	
N	6	-5.85	1.32	-8.02	-3.68	7.35	0.89	5.89	8.80	20.32	1.03	18.62	22.02	0.46	0.46	0.46	0.46	
F	0.20	6	-6.00	1.43	-8.35	-3.65	7.30	0.83	5.93	8.66	20.64	1.01	18.96	22.27	0.34	0.34	0.34	0.34
O	0.30	6	-5.66	1.42	-7.98	-3.33	7.20	0.78	5.92	8.47	20.75	1.01	19.11	22.40	0.39	0.39	0.39	0.39
R	0.40	6	-5.22	1.35	-7.44	-3.00	6.99	0.77	5.72	8.25	20.99	0.93	19.47	22.52	0.54	0.54	0.54	0.54
M	0.50	6	-4.78	1.40	-7.07	-2.49	6.63	0.95	5.07	8.19	21.30	0.78	20.02	23.58	0.64	0.64	0.64	0.64
A	0.60	6	-4.45	1.04	-6.15	-2.74	6.38	1.11	4.57	8.20	21.61	0.79	20.31	22.91	0.52	0.52	0.52	0.52
R	0.70	6	-3.98	0.83	-5.34	-2.63	5.95	0.98	4.34	7.56	21.93	1.01	20.27	23.60	0.71	0.71	0.71	0.71
D	0.80	6	-3.83	1.05	-5.56	-2.10	5.51	1.03	3.82	7.21	22.37	1.29	23.25	24.48	0.63	0.63	0.63	0.63
O	0.90	6	-3.80	1.13	-5.65	-1.95	5.44	0.95	3.89	7.00	22.67	1.09	20.69	24.26	0.13	0.13	0.13	0.13
1.00	N	6	-3.49	1.12	-5.33	-1.65	5.26	0.85	3.87	6.65	22.59	1.10	20.78	24.40	0.38	0.38	0.38	0.38
0.0		6	-3.49	1.12	-5.33	-1.65	5.26	0.85	3.87	6.65	22.59	1.10	20.78	24.40	0.0	0.0	0.0	0.0
0.10		6	-4.13	0.77	-5.40	-2.87	5.70	0.88	4.25	7.15	21.83	1.42	19.49	24.16	1.09	1.09	1.09	1.09
R	0.20	6	-4.44	0.86	-5.85	-3.02	6.04	0.88	4.60	7.48	21.37	1.62	18.71	24.03	0.65	0.65	0.65	0.65
R	0.30	6	-4.72	0.90	-6.19	-3.25	6.06	0.74	4.84	7.28	21.13	1.55	18.59	23.67	0.37	0.37	0.37	0.37
E	0.40	6	-4.36	1.18	-7.29	-3.42	6.27	1.13	4.42	8.12	20.78	1.56	18.42	23.54	0.69	0.69	0.69	0.69
T	0.50	6	-6.12	1.72	-8.94	-3.29	6.65	1.90	3.53	9.77	20.87	1.74	18.02	23.72	0.86	0.86	0.86	0.86
U	0.60	6	-5.89	1.45	-8.27	-3.51	6.39	1.30	4.27	8.52	20.54	1.60	17.91	23.16	0.47	0.47	0.47	0.47
R	0.70	6	-5.82	1.29	-7.93	-3.71	6.43	1.37	4.68	8.18	20.42	1.57	17.85	23.00	0.27	0.27	0.27	0.27
N	0.80	6	-5.86	1.18	-7.80	-3.92	6.75	1.13	4.89	8.60	20.40	1.60	17.77	23.03	0.32	0.32	0.32	0.32
O	0.90	6	-5.70	1.23	-7.71	-3.69	6.93	1.15	5.05	8.81	20.31	1.59	17.69	22.92	0.26	0.26	0.26	0.26
1.00		6	-5.51	1.43	-7.85	-3.18	7.05	1.16	5.15	8.94	20.20	1.54	17.73	22.73	0.24	0.24	0.24	0.24

LANDMARK - LT GRIP CENTER (117)

TIME	SAMPLE T	SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
			MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	16.73	0.14	15.51	17.95	10.29	1.02	8.61	11.96	12.96	0.11	12.77	13.14	0.0	0.0	0.0	0.0	2.59
0.10	7	16.13	0.92	14.63	17.63	8.58	1.08	6.81	10.35	14.81	0.91	13.32	16.30	2.59	0.0	0.0	0.0	0.0
F	0.20	15.32	1.20	13.35	17.30	5.51	1.36	3.28	7.73	17.22	1.65	14.50	19.91	3.98	6.57	6.57	6.57	6.57
R	0.30	14.31	1.46	11.91	16.70	1.45	1.41	-0.86	3.77	19.88	2.30	16.11	23.66	4.97	11.53	11.53	11.53	11.53
R	0.40	13.35	1.54	10.82	15.87	-1.32	1.76	-4.20	1.57	20.95	1.19	19.00	22.90	3.12	1.65	1.65	1.65	1.65
W	0.50	12.53	1.24	10.49	14.57	-4.50	2.24	-8.18	22.50	0.80	21.86	24.25	2.53	18.29	18.29	18.29	18.29	
A	0.60	12.48	1.30	10.34	14.62	-6.97	2.46	-11.00	22.93	0.05	0.73	21.86	24.25	2.53	20.81	20.81	20.81	20.81
R	0.70	12.06	0.96	10.48	13.63	-10.02	0.98	-11.63	8.41	23.10	0.43	22.70	24.10	3.10	23.92	23.92	23.92	23.92
D	0.80	11.56	1.01	9.91	13.21	-10.89	1.35	-13.10	8.68	23.59	0.19	23.27	23.90	1.02	24.94	24.94	24.94	24.94
R	0.90	11.34	0.98	9.76	12.91	1.42	-13.75	-9.10	23.72	0.15	23.47	23.96	0.59	25.53	25.53	25.53	25.53	
1.00	4	11.45	0.92	9.95	12.96	-11.83	0.85	-13.23	10.43	23.54	0.34	21.81	3.63	1.63	0.46	0.46	0.46	0.46
0.0	4	11.45	0.92	9.95	12.96	-11.83	0.85	-13.23	10.43	23.54	0.34	21.86	24.25	2.53	20.81	20.81	20.81	20.81
0.10	4	11.76	0.89	10.30	13.23	-10.06	0.66	-11.13	-8.98	23.11	0.30	22.62	23.60	1.85	1.85	1.85	1.85	1.85
0.20	5	11.70	1.31	9.56	13.84	-7.67	1.08	-9.44	-5.91	22.75	0.71	21.58	23.92	2.41	4.26	4.26	4.26	4.26
R	0.30	12.21	1.56	9.64	14.77	-4.74	0.72	-5.92	-3.55	22.02	1.25	19.96	24.07	3.07	7.33	7.33	7.33	7.33
E	0.40	13.00	1.51	10.53	15.48	-1.13	0.62	-2.15	-0.11	20.87	1.28	18.78	22.57	3.87	1.20	1.20	1.20	1.20
T	0.50	13.67	1.52	11.17	16.16	2.09	0.92	0.58	3.60	19.44	1.26	17.37	21.51	3.59	1.78	1.78	1.78	1.78
U	0.60	14.51	1.53	12.00	17.03	5.10	1.28	3.00	7.21	17.76	1.17	15.85	19.67	3.55	1.83	1.83	1.83	1.83
R	0.70	15.15	1.29	13.03	17.27	7.48	1.33	5.31	9.66	16.23	0.87	14.81	17.66	2.90	21.24	21.24	21.24	21.24
N	0.80	15.86	0.85	14.46	17.25	9.20	1.04	7.49	10.90	14.72	0.50	13.90	15.54	2.39	23.62	23.62	23.62	23.62
R	0.90	16.59	0.83	15.22	17.95	10.19	1.33	8.01	12.38	13.43	0.83	12.07	14.80	1.79	25.41	25.41	25.41	25.41
1.00	7	16.73	0.74	15.51	17.95	10.29	1.02	8.61	11.96	12.96	0.11	12.77	13.14	0.51	25.92	25.92	25.92	25.92

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LANDMARK - LT TROCHANTER (119)

TIME	SAMPLE T	SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
			MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	3.85	1.33	1.68	6.65	0.66	5.56	7.74	3.44	0.48	2.65	4.23	0.0	0.0	0.0	0.0	0.0	0.0
0.10	7	3.48	0.64	2.43	4.54	0.74	5.58	8.00	3.51	0.46	2.76	4.27	0.40	0.40	0.40	0.40	0.40	0.40
F	0.20	3.09	0.47	2.33	3.85	0.73	5.66	8.04	3.54	0.45	2.80	4.28	0.40	0.40	0.40	0.40	0.40	0.40
O	0.30	3.11	0.35	2.53	3.69	0.61	5.75	7.76	3.55	0.38	2.87	4.13	0.11	0.91	0.11	0.91	0.11	0.91
R	0.40	3.19	0.34	2.64	3.75	0.59	5.69	7.62	3.55	0.41	2.87	4.22	0.14	1.04	0.14	1.04	0.14	1.04
W	0.50	3.07	0.38	2.44	3.70	0.64	5.27	8.02	3.64	0.41	2.96	4.32	0.15	1.20	0.15	1.20	0.15	1.20
A	0.60	3.02	0.37	2.41	3.64	0.60	5.05	8.35	3.61	0.38	2.99	4.24	0.08	1.28	0.08	1.28	0.08	1.28
R	0.70	3.07	0.33	2.54	3.61	0.58	5.03	8.35	3.58	0.38	2.96	4.20	0.11	1.39	0.11	1.39	0.11	1.39
D	0.80	3.00	0.30	2.51	3.50	0.69	5.07	8.32	3.63	0.42	2.94	4.31	0.14	1.53	0.14	1.53	0.14	1.53
O	0.90	3.02	0.36	2.43	3.61	0.54	5.05	8.04	3.65	0.41	2.99	4.32	0.15	1.68	0.15	1.68	0.15	1.68
1.00	7	3.19	0.56	2.27	4.10	6.52	0.88	5.08	7.96	3.57	0.45	2.84	4.31	0.19	1.86	0.19	1.86	0.19
0.0	7	3.19	0.56	2.27	4.10	6.52	0.88	5.08	7.96	3.57	0.45	2.84	4.31	0.0	0.0	0.0	0.0	0.0
0.10	7	3.64	1.22	1.63	5.65	0.82	5.17	7.86	3.57	0.47	2.81	4.33	0.45	0.45	0.45	0.45	0.45	0.45
O	0.20	3.83	1.58	1.24	6.42	0.73	5.31	7.74	3.55	0.49	2.75	4.35	0.19	0.64	0.19	0.64	0.19	0.64
R	0.30	3.76	1.38	1.50	6.02	0.64	5.54	7.63	3.52	0.45	2.78	4.25	0.09	0.73	0.09	0.73	0.09	0.73
E	0.40	3.79	1.43	1.45	6.13	0.75	5.33	7.80	3.48	0.42	2.79	4.18	0.05	0.78	0.05	0.78	0.05	0.78
T	0.50	3.72	1.33	1.54	5.91	0.77	5.33	7.87	3.50	0.43	2.79	4.21	0.08	0.86	0.08	0.86	0.08	0.86
U	0.60	3.76	1.21	1.77	5.75	0.62	5.61	7.63	3.49	0.44	2.77	4.22	0.05	0.90	0.05	0.90	0.05	0.90
R	0.70	3.78	1.16	1.88	5.68	0.74	5.37	7.81	3.46	0.45	2.71	4.20	0.05	0.95	0.05	0.95	0.05	0.95
N	0.80	3.73	1.22	1.74	5.72	0.75	5.54	8.00	3.68	0.55	2.59	4.38	0.19	1.14	0.19	1.14	0.19	1.14
O	0.90	3.76	1.28	1.67	5.85	0.77	5.63	7.92	3.49	0.56	2.58	4.41	0.03	0.03	0.03	0.03	0.03	0.03
1.00	7	3.85	1.33	1.68	6.03	0.66	5.56	7.74	3.44	0.48	2.65	4.23	0.17	0.86	0.17	0.86	0.17	0.86

LANDMARK - LT KNEE TOP { 21 }

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	5	19.48	0.64	18.43	20.52	5.28	0.27	4.84	5.72	11.3	1.16	9.47	13.27	0.0	0.0	0.0	0.0
0.10	5	19.58	0.45	18.84	20.32	5.73	0.58	4.78	6.69	11.5	1.43	9.15	13.86	0.48	0.48	0.48	0.48
F 0.20	5	19.29	0.53	18.43	20.15	5.67	0.59	4.70	6.64	11.6	1.53	9.10	14.12	0.32	0.32	0.32	0.32
O 0.30	5	19.23	0.40	18.57	19.89	5.54	0.48	4.76	6.33	11.6	1.45	9.23	13.99	0.14	0.14	0.14	0.14
R 0.40	5	19.24	0.59	18.27	20.22	5.55	0.58	4.60	6.49	11.6	1.41	9.31	13.92	0.01	0.01	0.01	0.01
W 0.50	5	19.10	0.70	17.96	20.25	5.62	0.60	4.63	6.60	11.6	1.39	9.35	13.92	0.16	0.16	0.16	0.16
A 0.60	5	19.18	0.58	18.22	20.14	5.58	0.70	4.43	6.74	11.6	1.38	9.36	13.88	0.09	0.09	0.09	0.09
R 0.70	5	19.36	0.38	18.74	19.99	5.50	0.71	4.33	6.66	11.5	1.29	9.42	13.66	0.22	0.22	0.22	0.22
D 0.80	5	19.25	0.50	18.43	20.07	5.52	0.70	4.37	6.68	11.5	1.34	9.33	13.72	0.12	0.12	0.12	0.12
O 0.90	5	19.30	0.43	18.60	20.00	5.41	0.64	4.36	6.46	11.5	1.36	9.27	13.75	0.13	0.13	0.13	0.13
1.00	5	19.40	0.49	18.60	20.20	5.27	0.52	4.42	6.11	11.5	1.25	9.50	13.61	0.18	0.18	0.18	0.18
0.0	5	19.40	0.49	18.60	20.20	5.27	0.52	4.42	6.11	11.5	1.25	9.50	13.61	0.0	0.0	0.0	0.0
0.10	5	19.41	0.54	18.53	20.29	5.26	0.38	4.64	5.89	11.6	1.36	9.36	13.84	0.04	0.04	0.04	0.04
O 0.20	6	19.90	1.19	17.94	21.86	5.36	0.34	4.81	5.91	11.7	1.29	9.61	13.83	0.52	0.52	0.52	0.52
R 0.30	6	19.93	1.09	18.14	21.73	5.32	0.29	4.85	5.80	11.5	1.28	9.59	13.79	0.06	0.06	0.06	0.06
E 0.40	6	19.94	1.08	18.08	21.6	5.32	0.39	4.69	5.95	11.6	1.28	9.57	13.78	0.02	0.02	0.02	0.02
T 0.50	6	19.77	1.18	17.83	21.71	5.13	0.47	4.16	5.90	11.6	1.28	9.57	13.76	0.25	0.25	0.25	0.25
U 0.60	6	19.77	1.15	17.89	21.65	5.06	0.41	4.39	5.74	11.5	1.24	9.60	13.66	0.08	0.08	0.08	0.08
R 0.70	6	19.79	1.08	18.02	21.56	5.18	0.58	4.23	6.12	11.6	1.19	9.65	13.55	0.12	0.12	0.12	0.12
N 0.80	6	19.79	1.08	18.01	21.56	5.32	0.43	4.61	6.03	11.5	1.15	9.68	13.47	0.15	0.15	0.15	0.15
O 0.90	5	19.43	0.45	18.69	20.17	5.28	0.30	4.78	5.77	11.4	1.22	9.43	13.43	0.39	0.39	0.39	0.39
1.00	5	19.48	0.64	18.43	20.52	5.28	0.27	4.84	5.72	11.3	1.16	9.47	13.27	0.08	0.08	0.08	0.08

LANDMARK - LT SHOULDER CENTER { 23 }

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-3.77	0.80	-2.16	7.57	1.45	5.19	9.94	18.63	1.20	16.67	20.59	0.0	0.0	0.0	0.0	
0.10	7	-4.11	0.98	-5.72	-2.50	1.13	5.87	9.56	18.53	0.70	17.38	19.69	0.39	0.39	0.39	0.39	
F 0.20	7	-4.16	1.18	-6.09	-2.3	7.52	0.98	9.13	18.62	0.95	17.06	20.19	0.22	0.22	0.22	0.22	
O 0.30	7	-3.67	1.26	-5.74	-1.61	7.20	0.97	5.61	8.79	18.84	0.93	17.32	20.36	0.62	0.62	0.62	0.62
R 0.40	7	-3.09	1.21	-5.08	-1.10	7.00	0.94	5.46	8.53	19.49	0.91	17.60	20.57	0.67	0.67	0.67	0.67
W 0.50	7	-2.80	1.21	-4.78	-0.82	6.83	0.69	5.69	7.96	19.52	0.81	18.19	20.86	0.55	0.55	0.55	0.55
A 0.60	7	-2.38	1.21	-4.35	-0.40	6.63	0.58	5.68	7.58	19.90	0.71	18.74	21.06	0.60	0.60	0.60	0.60
R 0.70	7	-2.03	1.01	-3.70	-0.37	6.30	0.68	5.18	7.42	20.18	0.75	18.96	21.41	0.55	0.55	0.55	0.55
D 0.80	7	-2.09	1.04	-3.79	-0.38	6.08	0.76	4.84	7.33	20.43	0.80	19.12	21.73	0.33	0.33	0.33	0.33
O 0.90	7	-2.07	1.06	-3.80	-0.33	5.81	0.90	4.32	7.29	20.22	0.85	19.13	21.91	0.30	0.30	0.30	0.30
1.00	7	-1.88	0.93	-3.41	-0.35	5.36	1.08	3.58	7.13	20.52	0.94	18.97	22.06	0.48	0.48	0.48	0.48
0.0	7	-1.88	0.93	-3.41	-0.35	5.36	1.08	3.58	7.13	20.52	0.94	18.97	22.06	0.0	0.0	0.0	0.0
O 0.10	7	-2.23	0.84	-3.61	-0.86	5.68	0.86	4.27	7.08	19.98	1.10	18.17	21.79	0.72	0.72	0.72	0.72
R 0.20	7	-2.46	0.79	-3.76	-1.17	5.88	0.81	4.56	7.21	19.62	1.28	17.53	21.71	0.48	0.48	0.48	0.48
R 0.30	7	-2.49	0.79	-3.98	-1.39	6.05	0.95	4.50	7.60	19.44	1.29	17.30	21.52	0.35	0.35	0.35	0.35
E 0.40	7	-3.07	0.75	-4.29	-1.85	6.34	1.15	4.46	8.22	19.23	1.35	17.02	21.44	0.51	0.51	0.51	0.51
T 0.50	7	-3.53	0.89	-4.98	-2.08	6.58	1.47	4.17	9.00	19.42	1.46	16.63	21.41	0.56	0.56	0.56	0.56
U 0.60	7	-2.89	0.81	-5.21	-2.56	6.79	1.21	4.80	8.78	18.34	1.35	16.73	21.14	0.42	0.42	0.42	0.42
R 0.70	7	-4.12	0.85	-5.51	-2.72	6.85	1.07	5.10	8.61	18.95	1.25	16.90	21.00	0.24	0.24	0.24	0.24
N 0.80	7	-4.07	0.87	-5.49	-2.65	7.15	1.21	5.16	9.14	18.88	1.28	16.77	20.98	0.31	0.31	0.31	0.31
O 0.90	7	-3.88	0.85	-5.27	-2.49	7.40	1.35	5.17	9.62	18.73	1.24	16.69	20.77	0.35	0.35	0.35	0.35
1.00	7	-3.77	0.80	-5.07	-2.46	7.57	1.45	5.19	9.94	18.63	1.20	16.67	20.59	0.23	0.23	0.23	0.23

LANDMARK - LT ELBOW CENTER (25)

TIME	SAMPLE SIZE,N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					
		MEAN SE	5 PCT SE	95 PCT MEAN	SE	5 PCT MEAN	SE	95 PCT MEAN	SE	5 PCT MEAN	SE	95 PCT MEAN	SE	5 PCT MEAN	SE	95 PCT MEAN	
0.0	7	3.63	0.81	2.30	4.95	11.99	0.81	10.67	13.32	12.65	1.34	10.45	1.34	10.45	0.0	0.0	
0.10	7	3.41	0.85	2.01	4.81	11.42	0.61	10.42	12.43	12.41	1.02	10.73	1.02	10.73	0.65	0.65	
F 0.20	7	3.57	1.06	1.84	5.30	10.32	0.57	9.38	11.25	12.70	1.06	10.97	1.07	10.97	1.81	1.81	
R 0.30	7	4.57	1.01	2.91	6.23	8.81	0.81	7.48	10.14	13.56	1.07	11.81	1.07	11.81	3.00	3.00	
E 0.40	7	5.55	0.90	4.07	7.02	6.88	1.03	5.19	8.58	14.55	1.04	12.94	1.04	12.94	3.81	3.81	
M 0.50	7	6.20	0.77	4.94	7.47	4.64	1.40	2.34	6.95	15.78	0.96	14.20	1.20	14.20	6.23	6.23	
A 0.60	7	6.75	0.81	5.42	8.08	2.63	1.52	0.15	5.12	16.78	0.83	15.42	1.12	15.42	8.82	8.82	
R 0.70	7	6.96	0.66	5.88	8.04	1.28	1.36	-0.95	3.51	17.36	0.85	15.98	1.87	15.98	11.13	11.13	
D 0.80	7	6.86	0.64	5.82	7.91	0.34	1.09	-1.46	2.13	17.73	0.91	16.23	1.02	16.23	1.62	1.62	
N 0.90	7	6.79	0.66	5.71	7.87	-0.25	1.01	-1.91	1.40	17.90	0.97	16.30	1.94	16.30	1.64	1.64	
1.00	7	6.86	0.71	5.70	8.02	-0.64	0.79	-1.94	0.66	17.90	1.09	16.12	1.09	16.12	1.46	1.46	
0.0	7	6.86	0.71	5.70	8.02	-0.64	0.79	-1.94	0.66	17.90	1.09	16.12	1.09	16.12	0.0	0.0	
0.10	7	6.84	0.92	5.34	8.35	1.36	1.43	-0.98	3.69	17.35	0.69	18.47	2.07	18.47	2.07	2.07	
0.20	7	6.74	1.01	5.07	8.40	3.62	2.38	-0.29	7.53	16.44	0.84	15.06	1.81	15.06	4.51	4.51	
R 0.30	7	6.39	1.01	4.73	8.05	6.17	3.27	0.81	11.53	15.19	1.18	13.25	1.13	13.25	7.37	7.37	
E 0.40	7	5.75	0.90	4.27	7.23	7.42	1.05	5.69	9.15	16.64	1.27	12.55	1.27	12.55	8.88	8.88	
T 0.50	7	4.56	0.78	3.29	5.84	9.30	1.16	7.40	11.20	13.82	1.46	11.43	1.62	11.43	2.37	2.37	
U 0.60	7	3.75	0.70	2.60	4.90	10.43	1.08	8.66	12.20	13.24	1.64	10.55	15.94	1.51	15.94	1.25	1.25
R 0.70	7	3.23	0.72	2.04	4.41	11.19	1.04	9.49	12.90	12.93	1.63	10.25	15.60	1.51	15.60	1.76	1.76
N 0.80	7	3.04	0.80	1.73	4.36	11.69	0.95	10.13	13.26	12.82	1.49	10.37	15.26	1.37	15.26	1.74	1.74
O 0.90	7	3.25	0.71	2.08	4.42	11.91	0.91	10.42	13.39	12.67	1.37	10.42	14.92	0.33	14.92	1.42	1.42
1.00	7	3.63	0.81	2.30	4.95	11.99	0.81	10.67	13.32	12.65	1.34	10.45	14.85	0.39	14.85	15.00	15.00

LANDMARK - LT WRIST CENTER (27)

TIME	SAMPLE SIZE,N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE				
		MEAN SE	5 PCT SE	95 PCT MEAN	SE	5 PCT MEAN	SE	95 PCT MEAN	SE	5 PCT MEAN	SE	95 PCT MEAN	SE	5 PCT MEAN	SE	95 PCT MEAN
0.0	6	12.93	1.16	11.03	10.97	9.39	1.25	12.84	0.74	11.60	14.02	0.0	0.0	0.0	0.0	0.0
0.10	6	12.82	1.34	10.62	15.02	9.81	0.56	8.89	10.72	13.75	0.72	12.57	14.94	1.50	1.50	1.50
F 0.20	6	12.17	1.47	9.76	14.57	7.21	0.36	6.62	7.80	15.02	1.13	13.46	17.18	3.10	3.10	4.61
D 0.30	6	11.53	1.53	9.50	13.99	3.58	0.66	2.49	4.66	17.34	1.41	15.03	19.66	4.20	4.20	8.81
R 0.40	7	11.37	1.44	9.00	13.74	0.65	1.70	-2.14	3.43	19.03	1.16	17.13	20.92	3.38	3.38	12.19
W 0.50	6	10.85	1.15	8.96	12.75	-2.46	2.12	-5.93	1.01	20.59	0.90	19.11	22.06	3.52	3.52	15.71
A 0.60	5	10.83	1.09	9.05	12.62	-4.86	2.43	-8.85	-0.87	21.35	0.72	20.17	22.53	2.52	2.52	18.23
R 0.70	4	10.70	0.75	9.44	11.91	-7.59	6.68	-6.71	-6.47	21.89	0.24	21.49	22.29	2.79	2.79	21.02
D 0.80	4	10.43	0.45	9.69	11.18	-8.22	0.98	-9.84	-6.61	22.04	0.22	21.68	22.40	0.69	0.69	21.71
O 0.90	4	10.39	0.59	9.42	11.36	-8.55	1.40	-10.85	-6.26	22.42	0.15	21.78	22.26	0.33	0.33	22.05
1.00	4	10.82	0.83	9.46	12.19	-8.62	1.46	-11.01	-6.23	21.85	0.33	21.31	22.38	0.47	0.47	22.52
0.0	4	10.82	0.83	9.46	12.19	-8.62	1.46	-11.01	-6.23	21.85	0.33	21.31	22.38	0.0	0.0	0.0
0.10	4	10.60	0.82	9.26	11.95	-7.53	0.82	-8.88	-6.18	21.59	0.31	21.09	22.09	1.14	1.14	1.14
F 0.20	4	10.73	0.92	9.22	12.24	-5.76	0.61	-6.76	-4.77	21.00	0.60	20.01	21.99	1.87	1.87	3.01
R 0.30	5	10.83	1.32	8.66	13.00	-2.43	0.95	-3.99	-0.86	20.13	1.06	18.39	21.86	3.45	3.45	6.46
E 0.40	7	11.23	1.25	9.19	13.28	0.93	1.06	-0.81	2.66	18.96	1.19	17.01	20.91	3.57	3.57	10.03
T 0.50	7	11.39	1.28	9.28	13.50	3.86	1.10	1.10	2.05	17.57	1.27	15.59	19.76	3.21	3.21	13.24
U 0.60	7	11.62	1.45	9.24	14.00	6.47	1.27	4.39	8.56	16.26	1.32	14.10	18.43	2.98	2.98	16.21
R 0.70	7	11.80	1.32	9.63	13.97	8.60	1.31	6.46	10.74	15.12	1.16	13.22	17.02	2.42	2.42	18.64
N 0.80	6	12.32	1.08	10.55	14.10	10.24	1.05	1.05	1.05	11.95	1.00	12.50	15.77	1.98	1.98	20.61
O 0.90	6	12.61	1.05	10.89	14.33	10.76	1.00	9.13	12.40	13.46	0.80	12.15	14.18	0.90	0.90	21.52
1.00	6	12.93	1.16	11.03	14.83	10.97	0.97	9.39	12.55	12.84	0.74	11.60	14.02	0.76	0.76	22.27

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +18.0, +10.0, +12.4 TO STICK CONTROLLER AT +20.0, 0.0, +15.0 AND REMAINS AT STICK CONTROLLER FOR RIGHT HAND TO COMPLETE A MOVEMENT AND THEN RETURNS BACK TO THROTTLE CONTROLLER.

BACK ANGLE - 30

SUB-MOVEMENT

TIME DATA		
	MEAN	STD DEV
LEFT FWD	0.42	0.09
LEFT REV	0.39	0.11

RANGE
0.30 TO 0.60 SECS.
0.10 TO 0.60 SECS.

LANDMARK - NASTION

(1)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					DISTANCE MOVED	
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	INCR	CUM	
0.0	42	-0.48	1.23	-1.53	2.49	1.40	-2.21	2.39	2.67	1.36	25.44	0.0	0.0	29.89	0.0	0.0	0.0	
0.10	42	0.27	1.18	-1.67	2.20	0.13	-2.11	1.86	27.78	1.26	25.71	29.84	0.32	0.32	0.32	0.32	0.32	
0.20	42	-0.06	1.20	-1.91	2.04	-0.33	1.10	-2.13	1.47	1.20	25.89	29.84	0.30	0.30	0.62	0.62	0.62	
0.30	42	-0.03	1.21	-2.00	1.95	-0.43	1.10	-2.23	1.38	27.87	25.87	29.87	0.13	0.13	0.75	0.75	0.75	
R 0.40	42	-0.03	1.18	-1.96	1.90	-0.42	1.10	-2.23	1.39	27.86	1.25	25.81	29.90	0.01	0.01	0.77	0.77	0.77
N 0.50	42	0.01	1.16	-1.89	1.91	-0.39	1.09	-2.17	1.40	27.88	1.26	25.81	29.94	0.05	0.05	0.82	0.82	0.82
A 0.60	42	0.03	1.18	-1.91	1.97	-0.34	1.06	-2.08	1.40	27.94	1.26	25.88	30.01	0.08	0.08	0.90	0.90	0.90
R 0.70	42	0.04	1.22	-1.96	2.04	-0.26	1.06	-1.99	1.48	27.99	1.25	25.95	30.04	0.10	0.10	1.00	1.00	1.00
D 0.80	42	0.03	1.22	-1.98	2.03	-0.18	1.09	-1.96	1.61	28.06	1.26	25.99	30.13	0.10	0.10	1.10	1.10	1.10
O 0.90	42	0.00	1.19	-1.96	1.96	-0.13	1.14	-2.01	1.75	28.15	1.30	26.02	30.28	0.11	0.11	1.21	1.21	1.21
1.00	42	-0.02	1.18	-1.96	1.91	-0.09	1.22	-2.10	1.92	28.25	1.35	26.04	30.45	0.11	0.11	1.32	1.32	1.32
0.0	42	-0.02	1.18	-1.96	1.91	-0.09	1.22	-2.10	1.92	28.25	1.35	26.04	30.45	0.0	0.0	0.0	0.0	0.0
0.10	42	0.63	1.11	-1.19	2.46	0.78	1.19	-1.18	2.73	27.78	1.27	25.69	29.87	1.18	1.18	1.18	1.18	1.18
0.20	42	0.63	1.13	-1.23	2.49	0.67	1.21	-1.32	2.65	27.76	1.29	25.64	29.88	1.30	1.30	1.30	1.30	1.30
R 0.30	42	0.62	1.15	-1.26	2.49	0.54	1.22	-1.46	2.53	27.72	1.29	25.61	29.84	0.13	0.13	1.43	1.43	1.43
E 0.40	42	0.59	1.16	-1.31	2.49	0.43	1.23	-1.58	2.44	27.70	1.28	25.60	29.79	0.12	0.12	1.55	1.55	1.55
T 0.50	42	0.57	1.20	-1.41	2.54	0.34	1.26	-1.73	2.41	27.70	1.28	25.63	29.78	0.09	0.09	1.64	1.64	1.64
U 0.60	42	0.56	1.22	-1.44	2.56	0.27	1.31	-1.87	2.42	27.71	1.28	25.60	29.81	0.07	0.07	1.71	1.71	1.71
R 0.70	42	0.54	1.21	-1.44	2.53	0.21	1.34	-1.98	2.40	27.69	1.30	25.55	29.82	0.07	0.07	1.77	1.77	1.77
N 0.80	42	0.53	1.21	-1.45	2.51	0.15	1.35	-2.06	2.36	27.56	1.32	25.49	29.83	0.07	0.07	1.84	1.84	1.84
O 0.90	42	0.50	1.21	-1.48	2.49	0.12	1.37	-2.13	2.36	27.56	1.34	25.47	29.86	0.04	0.04	1.88	1.88	1.88
1.00	42	0.48	1.23	-1.53	2.49	0.09	1.40	-2.21	2.39	27.67	1.36	25.44	29.89	0.04	0.04	1.92	1.92	1.92

LANDMARK - CERVICALE

(2)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					DISTANCE MOVED	
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	INCR	CUM	
0.0	42	-6.71	1.10	-8.51	0.11	1.44	-2.25	2.47	21.49	1.22	19.49	23.48	0.0	0.0	0.0	0.0	0.0	0.0
0.10	42	-6.90	1.04	-8.60	0.20	1.22	-2.01	2.00	21.44	1.21	19.45	23.42	0.22	0.22	0.45	0.45	0.45	0.45
F 0.20	42	-7.09	1.04	-8.96	-5.22	-0.11	1.15	-2.00	1.79	21.38	1.22	19.38	23.39	0.22	0.22	0.53	0.53	0.53
O 0.30	42	-7.16	1.26	-9.23	-5.09	-0.14	1.15	-2.03	1.75	21.37	1.21	19.38	23.36	0.08	0.08	0.53	0.53	0.53
R 0.40	42	-7.13	1.27	-9.22	-5.05	-0.11	1.12	-1.76	1.73	21.38	1.20	19.41	23.35	0.04	0.04	0.57	0.57	0.57
W 0.50	42	-7.07	1.25	-9.12	-5.01	-0.11	1.08	-1.89	1.67	21.41	1.20	19.45	23.37	0.07	0.07	0.64	0.64	0.64
A 0.60	42	-7.01	1.21	-8.99	-5.03	-0.08	1.03	-1.77	1.62	21.42	1.20	19.46	23.39	0.06	0.06	0.70	0.70	0.70
R 0.70	42	-6.94	1.23	-8.95	-4.93	-0.02	1.05	-1.74	1.71	21.41	1.17	19.49	23.32	0.09	0.09	0.80	0.80	0.80
D 0.80	42	-6.87	1.25	-8.92	-4.82	-0.04	1.08	-1.73	1.81	21.41	1.15	19.53	23.29	0.09	0.09	0.88	0.88	0.88
O 0.90	42	-6.84	1.26	-8.90	-4.80	0.07	1.10	-1.74	1.88	21.42	1.15	19.53	23.31	0.05	0.05	0.93	0.93	0.93
1.00	42	-6.82	1.28	-8.91	-4.72	0.11	1.14	-1.77	1.98	21.43	1.16	19.52	23.34	0.04	0.04	0.98	0.98	0.98
0.0	42	-6.82	1.28	-8.91	-4.72	0.11	1.14	-1.77	1.98	21.43	1.16	19.52	23.34	0.0	0.0	0.0	0.0	0.0
0.10	42	-6.45	1.04	-8.15	-4.75	0.30	1.38	-1.96	2.55	21.55	1.17	19.63	23.46	0.43	0.43	0.50	0.50	0.50
0.20	42	-6.47	1.04	-8.18	-4.76	0.22	1.44	-2.13	2.58	21.55	1.17	19.62	23.47	0.07	0.07	0.58	0.58	0.58
R 0.30	42	-6.51	1.06	-8.24	-4.78	0.17	1.45	-2.21	2.55	21.52	1.17	19.61	23.44	0.57	0.57	0.66	0.66	0.66
E 0.40	42	-6.59	1.10	-8.39	-4.79	0.15	1.42	-2.18	2.49	21.50	1.18	19.57	23.44	0.08	0.08	0.71	0.71	0.71
T 0.50	42	-6.64	1.19	-8.60	-4.68	0.17	1.43	-2.17	2.51	21.52	1.22	19.52	23.51	0.06	0.06	0.75	0.75	0.75
U 0.60	42	-6.64	1.16	-8.54	-4.75	0.14	1.45	-2.24	2.52	21.53	1.22	19.52	23.51	0.06	0.06	0.80	0.80	0.80
R 0.70	42	-6.68	1.14	-8.55	-4.81	0.10	1.47	-2.32	2.50	21.51	1.22	19.51	23.51	0.06	0.06	0.84	0.84	0.84
N 0.80	42	-6.72	1.15	-8.60	-4.83	0.09	1.47	-2.33	2.49	21.49	1.22	19.50	23.49	0.04	0.04	0.88	0.88	0.88
O 0.90	42	-6.72	1.12	-8.55	-4.89	0.10	1.45	-2.27	2.47	21.49	1.21	19.50	23.48	0.01	0.01	0.86	0.86	0.86
1.00	42	-6.71	1.10	-8.51	-4.91	0.11	1.44	-2.25	2.47	21.49	1.22	19.49	23.49	0.01	0.01	0.87	0.87	0.87

LANDMARK - SUPRASTERNALE (3)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE,N	-2.23	1.55	-4.77	0.32	0.54	1.43	-1.80	2.88	20.64	0.99	18.97	22.23	0.0	0.0	0.0	0.0	
0.0	42	-2.40	1.25	-4.45	-0.35	0.37	1.32	-1.20	2.54	20.59	0.94	19.04	22.13	0.24	0.24	0.24	0.24	
F	0.20	42	-2.61	1.16	-4.51	-0.70	0.18	1.45	-2.20	2.55	20.57	0.92	19.06	22.08	0.28	0.28	0.28	0.28
D	0.30	42	-2.74	1.24	-4.77	-0.71	0.05	1.66	-2.68	2.77	20.60	0.91	19.11	22.09	0.19	0.19	0.19	0.19
E	0.40	42	-2.68	1.20	-4.65	-0.71	0.13	1.60	-2.49	2.75	20.64	0.95	19.09	22.19	0.11	0.11	0.11	0.11
W	0.50	42	-2.56	1.20	-4.52	-0.59	0.25	1.42	-2.09	2.58	20.70	1.06	18.96	22.44	0.18	0.18	0.18	0.18
A	0.60	42	-2.40	1.18	-4.34	-0.46	0.27	1.25	-1.79	2.32	20.67	0.95	19.12	22.23	0.16	0.16	0.16	0.17
R	0.70	42	-2.26	1.28	-4.35	-0.17	0.32	1.19	-1.63	2.27	20.63	0.90	19.16	22.10	0.15	0.15	0.15	0.15
D	0.80	42	-2.20	1.31	-4.34	-0.06	0.37	1.18	-1.57	2.31	20.61	0.92	19.10	22.11	0.08	0.08	0.08	0.08
O	0.90	42	-2.14	1.34	-4.33	0.05	0.41	1.22	-1.59	2.40	20.63	0.92	19.12	22.14	0.08	0.08	0.08	0.08
1.00	42	-2.08	1.41	-4.39	0.23	0.44	1.29	-1.67	2.55	20.65	0.92	19.14	22.16	0.07	0.07	0.07	0.07	
0.0	42	-2.08	1.41	-4.39	0.23	0.44	1.29	-1.67	2.55	20.65	0.92	19.14	22.16	0.0	0.0	0.0	0.0	
0.10	42	-1.97	1.31	-4.12	0.18	0.69	1.30	-1.44	2.82	20.56	1.04	18.86	22.26	0.29	0.29	0.29	0.29	
R	0.20	42	-2.00	1.35	-4.21	0.21	0.63	1.29	-1.48	2.75	20.56	1.06	18.82	22.30	0.07	0.07	0.07	0.07
O	0.30	42	-2.09	1.45	-4.47	0.29	0.62	1.29	-1.49	2.74	20.56	1.06	18.83	22.29	0.09	0.09	0.09	0.09
E	0.40	42	-2.18	1.60	-4.81	0.45	0.65	1.33	-1.52	2.83	20.56	1.04	18.85	22.27	0.54	0.54	0.54	0.54
T	0.50	42	-2.16	1.50	-4.61	0.30	0.61	1.28	-1.48	2.71	20.64	1.05	18.88	22.32	0.06	0.06	0.06	0.06
U	0.60	42	-2.13	1.53	-4.73	0.28	0.64	1.49	-1.80	3.08	20.63	1.06	18.90	22.36	0.08	0.08	0.08	0.07
R	0.70	42	-2.37	1.83	-5.38	0.64	0.72	1.83	-2.28	3.71	20.61	1.04	18.91	22.32	0.16	0.16	0.16	0.16
N	0.80	42	-2.41	1.86	-5.46	0.63	0.71	1.85	-2.33	3.74	20.60	1.03	18.92	22.29	0.05	0.05	0.05	0.05
O	0.90	42	-2.32	1.60	-4.95	0.31	0.62	1.55	-1.91	3.16	20.60	1.01	18.95	22.25	0.12	0.12	0.12	0.12
1.00	42	-2.23	1.55	-4.77	0.32	0.54	1.43	-1.80	2.88	20.60	0.99	18.97	22.23	0.13	0.13	0.13	0.13	

LANDMARK - LT ACRMION (5)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE,N	-5.90	1.01	-7.56	-4.24	7.49	0.88	6.04	8.93	20.89	1.45	18.51	23.28	0.0	0.0	0.0	0.0	
0.0	26	-5.89	0.94	-7.43	-4.35	7.52	0.82	6.17	8.88	20.80	1.32	18.63	22.97	0.10	0.10	0.10	0.10	
F	0.20	26	-5.89	0.97	-7.48	-4.31	7.56	0.90	6.09	9.03	20.71	1.22	18.71	22.71	0.20	0.20	0.20	0.20
O	0.30	26	-5.76	1.08	-7.54	-3.98	7.45	0.97	5.85	9.05	20.67	1.19	18.72	22.62	0.18	0.18	0.18	0.18
R	0.40	26	-5.63	1.37	-7.88	-3.38	7.37	1.30	5.24	9.50	20.58	1.16	18.68	22.49	0.18	0.18	0.18	0.18
W	0.50	-5.53	1.73	-8.37	-2.69	7.26	1.77	4.36	10.16	20.54	1.10	18.71	22.30	0.17	0.17	0.17	0.17	
A	0.60	25	-5.15	1.33	-7.33	-2.98	7.43	1.25	5.38	10.54	20.52	1.06	18.78	22.25	0.42	0.42	0.42	0.42
R	0.70	26	-4.77	1.03	-6.46	-3.08	7.58	0.84	6.20	8.96	20.53	0.99	18.91	22.15	0.41	0.41	0.41	0.41
D	0.80	25	-4.53	1.00	-6.17	-2.89	7.64	0.74	6.42	8.86	20.45	0.88	19.00	21.90	0.26	0.26	0.26	0.26
O	0.90	25	-4.36	0.98	-5.94	-2.78	7.64	0.74	6.45	8.83	20.47	0.87	19.04	21.89	0.17	0.17	0.17	0.17
1.00	25	-4.20	0.96	-5.77	-2.63	7.64	0.73	6.45	8.84	20.48	0.86	19.07	21.89	0.16	0.16	0.16	0.16	
0.0	25	-4.20	0.96	-5.77	-2.63	7.64	0.73	6.45	8.84	20.48	0.86	19.07	21.89	0.0	0.0	0.0	0.0	
0.10	23	-5.44	0.96	-7.01	-3.87	7.92	0.89	6.47	9.37	20.50	1.48	18.07	22.94	1.27	1.27	1.27	1.27	
0.20	23	-5.62	1.02	-7.29	-3.95	7.80	0.95	6.24	9.36	20.60	1.49	18.16	23.05	1.51	1.51	1.51	1.51	
R	0.30	24	-5.66	1.04	-7.37	-3.95	7.70	0.89	6.24	9.17	20.72	1.53	18.21	23.23	1.67	1.67	1.67	1.67
E	0.40	24	-5.74	1.29	-7.52	-3.96	7.62	0.89	6.16	9.08	20.73	1.52	18.24	23.21	1.78	1.78	1.78	1.78
T	0.50	24	-5.82	1.15	-7.70	-3.94	7.57	0.95	6.01	9.13	20.79	1.53	18.29	23.29	1.90	1.90	1.90	1.90
U	0.60	24	-5.88	1.12	-7.72	-4.04	7.54	1.01	5.89	9.20	20.85	1.55	18.31	23.38	1.99	1.99	1.99	1.99
R	0.70	24	-5.95	1.10	-7.76	-4.14	7.52	0.95	5.97	9.08	20.87	1.55	18.32	23.41	2.05	2.05	2.05	2.05
N	0.80	25	-5.96	1.10	-7.77	-4.16	7.51	0.89	6.04	8.98	20.88	1.52	18.38	23.39	0.03	0.03	0.03	0.03
O	0.90	25	-5.92	1.05	-7.64	-4.20	7.50	0.89	6.03	8.96	20.89	1.50	18.43	23.35	0.05	0.05	0.05	0.05
1.00	26	-5.90	1.01	-7.56	-4.24	7.49	0.88	6.04	8.93	20.89	1.45	18.51	23.28	0.02	0.02	0.02	0.02	

LANDMARK - LT GRIP CENTER (117)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					DISTANCE MOVED					
		T	SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	INCR	CUM	
0.0	F	19	16.34	0.54	15.46	17.22	10.33	0.49	9.53	11.13	12.94	0.36	12.35	13.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	R	19	16.38	0.65	15.31	17.44	8.86	0.70	7.81	10.11	13.72	0.41	13.05	14.39	1.57	1.57	1.57	1.57	1.57	1.57	1.57	
0.20	D	20	16.45	0.99	14.84	18.07	7.64	1.36	5.64	5.42	9.86	14.49	0.57	15.55	15.43	3.11	3.11	3.11	3.11	3.11	3.11	3.11
0.30	O	20	16.56	1.12	14.73	18.39	6.04	1.76	3.15	8.93	14.93	0.67	13.83	16.04	1.67	1.67	1.67	1.67	1.67	1.67	1.67	
0.40	R	21	16.71	1.10	14.90	18.52	4.49	2.14	0.98	8.01	15.23	0.86	13.86	16.70	1.59	1.59	1.59	1.59	1.59	1.59	1.59	
0.50	H	24	17.07	0.95	15.51	18.63	3.94	1.25	1.88	5.99	15.15	0.89	16.60	16.60	0.67	0.67	0.67	0.67	0.67	0.67	0.67	
A	A	23	17.61	0.87	16.19	19.04	2.87	1.53	0.36	5.38	14.98	0.96	13.39	16.56	1.21	1.21	1.21	1.21	1.21	1.21	1.21	
R	O	24	17.94	0.57	17.00	18.88	2.66	0.76	1.41	3.91	14.65	0.73	13.44	15.85	0.51	0.51	0.51	0.51	0.51	0.51	0.51	
D	O	23	18.21	0.49	17.41	19.02	2.10	0.47	1.33	2.87	14.30	0.59	13.33	15.27	0.71	0.71	0.71	0.71	0.71	0.71	0.71	
0.90	N	22	18.32	0.49	17.52	19.12	1.83	0.34	1.27	2.38	14.14	0.45	13.40	14.89	0.33	0.33	0.33	0.33	0.33	0.33	0.33	
1.00	P	23	18.42	0.53	17.56	19.29	1.58	0.35	1.00	2.17	14.05	0.38	13.42	14.67	0.28	0.28	0.28	0.28	0.28	0.28	0.28	
0.0	P	23	18.42	0.53	17.56	19.29	1.58	0.35	1.00	2.17	14.05	0.38	13.42	14.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.10	R	21	16.26	0.69	15.14	17.39	3.59	1.02	1.92	5.26	14.49	0.65	13.41	15.56	2.98	2.98	2.98	2.98	2.98	2.98	2.98	
0.20	R	21	15.77	0.74	14.55	16.98	4.30	1.28	2.20	6.40	14.76	0.71	13.60	15.92	0.91	0.91	0.91	0.91	0.91	0.91	0.91	
0.30	R	19	15.44	0.68	14.34	16.55	5.59	1.32	3.42	7.75	15.06	0.69	13.92	16.19	1.36	1.36	1.36	1.36	1.36	1.36	1.36	
E	O	19	15.32	0.86	13.92	16.73	6.68	1.23	4.67	8.69	15.18	0.66	14.10	16.27	1.11	1.11	1.11	1.11	1.11	1.11	1.11	
E	O	19	15.32	0.86	13.92	16.73	6.68	1.23	4.67	8.69	15.18	0.66	14.10	16.27	1.11	1.11	1.11	1.11	1.11	1.11	1.11	
T	O	20	15.48	0.94	13.94	17.01	8.15	1.15	6.26	10.03	15.24	0.83	13.89	16.60	1.47	1.47	1.47	1.47	1.47	1.47	1.47	
U	O	20	15.68	0.96	14.10	17.25	8.91	0.83	1.08	7.65	10.28	14.74	0.65	13.68	15.80	0.94	0.94	0.94	0.94	0.94	0.94	0.94
R	O	20	15.91	0.85	14.53	17.30	9.65	0.68	8.53	10.77	14.20	0.57	13.26	15.13	0.95	0.95	0.95	0.95	0.95	0.95	0.95	
N	O	20	16.18	0.82	14.83	17.53	10.02	0.60	9.05	11.00	13.67	0.56	12.75	14.59	0.69	0.69	0.69	0.69	0.69	0.69	0.69	
O	N	19	16.27	0.65	15.19	17.34	10.19	0.48	9.39	10.98	13.30	0.44	12.58	14.02	0.42	0.42	0.42	0.42	0.42	0.42	0.42	
P	N	19	16.34	0.54	15.46	17.22	10.33	0.49	9.53	11.13	12.94	0.36	12.35	13.53	0.39	0.39	0.39	0.39	0.39	0.39	0.39	
1.00	P	19	16.34	0.54	15.46	17.22	10.33	0.49	9.53	11.13	12.94	0.36	12.35	13.53	0.39	0.39	0.39	0.39	0.39	0.39	0.39	

LANDMARK - LT TROCHANTER (19)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					DISTANCE MOVED				
		T	SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	INCR	CUM	SE	5 PCT	95 PCT	INCR
0.0	F	21	3.16	0.83	1.79	4.92	6.71	0.74	5.50	7.93	3.48	0.35	2.90	4.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.10	R	21	3.38	0.88	1.93	4.83	6.74	0.69	5.61	7.88	3.51	0.38	2.88	4.14	0.22	0.22	0.22	0.22	0.22	0.22	0.22
0.20	R	21	3.58	1.02	1.91	5.24	6.79	0.75	5.55	8.03	3.53	0.45	2.80	4.27	0.43	0.43	0.43	0.43	0.43	0.43	0.43
O	O	21	3.56	1.03	1.87	5.25	6.83	0.75	5.61	8.05	3.56	0.45	2.80	4.30	0.45	0.45	0.45	0.45	0.45	0.45	0.45
R	O	21	3.48	0.97	1.89	5.08	6.80	0.68	5.68	7.92	3.57	0.45	2.83	4.30	0.48	0.48	0.48	0.48	0.48	0.48	0.48
H	O	21	3.47	1.00	1.83	5.21	6.76	0.67	5.66	7.86	3.59	0.49	2.79	4.40	0.55	0.55	0.55	0.55	0.55	0.55	0.55
A	O	21	3.51	1.08	1.74	5.29	6.79	0.63	5.76	7.81	3.58	0.45	2.84	4.32	0.67	0.67	0.67	0.67	0.67	0.67	0.67
R	O	21	3.44	0.88	2.00	4.88	6.74	0.59	5.77	7.72	3.52	0.39	2.88	4.16	0.78	0.78	0.78	0.78	0.78	0.78	0.78
D	O	21	3.45	0.85	2.05	4.85	6.73	0.63	5.71	7.76	3.49	0.38	2.87	4.11	0.81	0.81	0.81	0.81	0.81	0.81	0.81
O	N	20	3.48	0.80	2.17	4.79	6.72	0.61	5.72	7.73	3.49	0.39	2.86	4.13	0.83	0.83	0.83	0.83	0.83	0.83	0.83
P	N	20	3.44	0.78	2.16	4.72	6.69	0.62	5.67	7.70	3.51	0.39	2.87	4.16	0.86	0.86	0.86	0.86	0.86	0.86	0.86
1.00	P	20	3.44	0.78	2.16	4.72	6.69	0.62	5.67	7.70	3.51	0.39	2.87	4.16	0.86	0.86	0.86	0.86	0.86	0.86	0.86
O	R	21	3.42	0.81	2.09	4.75	6.74	0.60	5.75	7.73	3.51	0.36	2.92	4.11	0.86	0.86	0.86	0.86	0.86	0.86	0.86
R	O	21	3.37	0.76	2.13	4.61	6.72	0.63	5.69	7.76	3.55	0.42	2.85	4.25	0.86	0.86	0.86	0.86	0.86	0.86	0.86
O	O	21	3.35	0.74	2.14	4.56	6.73	0.64	5.68	7.78	3.53	0.42	2.84	4.22	0.86	0.86	0.86	0.86	0.86	0.86	0.86
E	O	21	3.34	0.76	2.10	4.59	6.73	0.69	5.59	7.87	3.50	0.39	2.86	4.15	0.86	0.86	0.86	0.86	0.86	0.86	0.86
T	O	21	3.32	0.80	2.01	4.64	6.71	0.67	5.61	7.81	3.50	0.39	2.85	4.15	0.86	0.86	0.86	0.86	0.86	0.86	0.86
U	O	21	3.29	0.86	1.88	4.70	6.71	0.59	5.75	7.67	3.49	0.40	2.82	4.15	0.86	0.86	0.86	0.86	0.86	0.86	0.86
R	O	21	3.29	0.83	1.92	4.65	6.76	0.58	5.76	7.71	3.48	0.38	2.86	4.10	0.86	0.86	0.86	0.86	0.86	0.86	0.86
N	O	21	3.29	0.80	1.97	4.60	6.78	0.62	5.76	7.80	3.48	0.35	2.90	4.06	0.86	0.86	0.86	0.86	0.86	0.86	0.86
O	N	21	3.23	0.80	1.92	4.53	6.75	0.65	5.68	7.82	3.48	0.35	2.92	4.04	0.86	0.86	0.86	0.86	0.86	0.86	0.86
P	N	21	3.16	0.83	1.79	4.52	6.71	0.74	5.50	7.93	3.48	0.35	2.90	4.06	0.86	0.86	0.86	0.86	0.86	0.86	0.86
1.00	P	21	3.16	0.83	1.79	4.52	6.71	0.74	5.50	7.93	3.48	0.35	2.90	4.06	0.86	0.86	0.86	0.86	0.86	0.86	0.86

LANDMARK - LT KNEE TOP (21)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	20	19.27	0.72	18.09	20.45	5.27	0.76	4.03	6.52	11.67	0.94	10.13	13.21	0.0	0.0	0.0	0.0
F 0.10	18	19.39	0.75	18.16	20.63	5.38	0.74	4.18	6.59	11.75	0.97	10.16	13.33	0.18	0.18	0.18	0.18
F 0.20	20	19.31	0.93	17.78	20.83	5.57	0.95	4.02	7.13	11.64	0.99	10.02	13.26	0.23	0.23	0.23	0.23
F 0.30	20	19.27	0.94	17.73	20.01	5.56	1.03	3.87	7.24	11.64	0.97	10.06	13.23	0.04	0.04	0.04	0.04
R 0.40	22	19.23	0.86	17.82	20.63	5.47	0.57	3.88	7.06	11.79	0.97	10.19	13.38	0.17	0.17	0.17	0.17
R 0.50	22	19.20	0.35	17.80	20.59	5.49	0.95	3.94	7.05	11.82	0.96	10.24	13.39	0.05	0.05	0.05	0.05
A 0.60	22	19.33	0.76	18.08	20.58	5.41	1.08	3.64	7.17	11.85	0.98	10.25	13.45	0.16	0.16	0.16	0.16
R 0.70	21	19.38	0.84	17.99	20.76	5.36	1.24	3.32	7.39	11.72	0.93	10.20	13.24	0.15	0.15	0.15	0.15
D 0.80	21	19.29	0.82	17.94	20.65	5.46	1.04	3.76	7.17	11.67	0.94	10.13	13.21	0.14	0.14	0.14	0.14
N 0.90	21	19.30	0.81	17.97	20.62	5.44	1.01	3.78	7.09	11.59	0.92	10.18	13.20	0.03	0.03	0.03	0.03
1.00	21	19.30	0.82	17.96	20.64	5.42	1.01	3.76	7.08	11.71	0.91	10.23	13.20	0.03	0.03	0.03	0.03
0.0	21	19.30	0.82	17.96	20.64	5.42	1.01	3.76	7.08	11.71	0.91	10.23	13.20	0.0	0.0	0.0	0.0
0.10	22	19.28	0.75	18.03	20.52	5.34	0.92	3.84	6.84	11.57	0.93	10.03	13.10	0.17	0.17	0.17	0.17
0.20	22	19.31	0.75	18.08	20.53	5.40	1.00	3.76	7.04	11.57	0.96	10.01	13.14	0.07	0.07	0.07	0.07
R 0.30	22	19.26	0.72	18.08	20.44	5.35	0.93	3.83	6.87	11.52	0.98	9.91	13.14	0.08	0.08	0.08	0.08
E 0.40	22	19.20	0.69	18.07	20.34	5.29	0.84	3.92	6.66	11.50	1.00	9.85	13.14	0.09	0.09	0.09	0.09
T 0.50	21	19.27	0.69	18.14	20.40	5.21	0.74	4.00	6.42	11.55	1.02	9.88	13.22	0.12	0.12	0.12	0.12
T 0.60	21	19.30	0.72	18.11	20.49	5.24	0.76	3.99	6.48	11.55	0.99	9.92	13.18	0.04	0.04	0.04	0.04
R 0.70	21	19.30	0.78	18.02	20.57	5.27	0.79	3.98	6.55	11.54	0.94	10.00	13.08	0.04	0.04	0.04	0.04
N 0.80	21	19.30	0.81	17.97	20.63	5.31	0.80	4.00	6.62	11.53	0.90	10.05	13.01	0.04	0.04	0.04	0.04
0.90	20	19.31	0.76	18.06	20.55	5.28	0.77	4.01	6.55	11.62	0.91	10.14	13.11	0.10	0.10	0.10	0.10
1.00	20	19.27	0.72	18.09	20.45	5.27	0.76	4.03	6.52	11.67	0.94	10.13	13.21	0.06	0.06	0.06	0.06

LANDMARK - LT SHOULDER CENTER (23)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	20	-4.02	0.74	-5.24	-2.81	8.05	1.33	5.87	10.23	18.49	1.23	16.48	20.50	0.0	0.0	0.0	0.0
F 0.10	20	-4.07	0.70	-5.21	-2.93	7.83	1.20	5.85	9.80	18.45	1.01	16.78	20.11	0.23	0.23	0.23	0.23
F 0.20	20	-4.10	0.71	-5.27	-2.93	7.64	1.15	5.76	9.52	18.44	0.92	16.88	19.91	0.43	0.43	0.43	0.43
D 0.30	21	-3.85	0.72	-5.03	-2.67	7.59	1.14	5.73	9.46	18.38	0.96	16.81	19.95	0.25	0.25	0.25	0.25
R 0.40	21	-3.64	0.64	-4.69	-2.59	7.55	1.23	5.53	9.57	18.32	0.89	16.87	19.78	0.22	0.22	0.22	0.22
N 0.50	21	-3.43	0.54	-4.31	-2.55	7.43	1.26	5.36	9.50	18.34	0.83	16.97	19.70	0.24	0.24	0.24	0.24
A 0.60	21	-3.16	0.62	-4.17	-2.15	7.42	1.21	5.44	9.41	18.35	0.77	17.08	19.61	0.27	0.27	0.27	0.27
R 0.70	21	-2.87	0.77	-4.13	-1.61	7.44	1.15	5.56	9.33	18.32	0.76	17.07	19.56	0.29	0.29	0.29	0.29
D 0.80	21	-2.63	0.83	-4.00	-1.26	7.45	1.09	5.66	9.23	18.29	0.77	17.03	19.56	0.24	0.24	0.24	0.24
O 0.90	21	-2.56	0.81	-3.88	-1.24	7.41	1.08	5.64	9.17	18.30	0.78	17.03	19.57	0.08	0.08	0.08	0.08
1.00	21	-2.49	0.82	-3.83	-1.15	7.36	1.11	5.54	9.19	18.31	0.79	17.02	19.61	0.08	0.08	0.08	0.08
0.0	21	-2.49	0.82	-3.83	-1.15	7.36	1.11	5.54	9.19	18.31	0.79	17.02	19.61	0.0	0.0	0.0	0.0
O.10	21	-3.73	0.75	-4.95	-2.51	7.74	1.17	5.82	9.66	18.21	1.11	16.39	20.04	1.30	1.30	1.30	1.30
R 0.30	21	-3.86	0.74	-5.08	-2.65	7.71	1.22	5.70	9.71	18.27	1.14	16.40	20.14	1.44	1.44	1.44	1.44
E 0.40	21	-4.11	0.71	-5.14	-2.83	7.66	1.24	5.63	9.70	18.29	1.11	16.47	20.11	1.57	1.57	1.57	1.57
T 0.50	21	-4.20	0.79	-5.50	-2.91	7.63	1.27	5.55	9.71	18.29	1.10	16.48	20.09	1.70	1.70	1.70	1.70
U 0.60	21	-4.20	0.84	-5.58	-2.82	7.69	1.25	5.64	9.74	18.34	1.15	16.45	20.22	1.81	1.81	1.81	1.81
R 0.70	21	-4.17	0.87	-5.60	-2.73	7.73	1.24	5.70	9.75	18.46	1.17	16.51	20.33	1.92	1.92	1.92	1.92
N 0.80	21	-4.15	0.92	-5.65	-2.64	7.75	1.24	5.71	9.79	18.50	1.21	16.51	20.48	1.93	1.93	1.93	1.93
O.90	20	-4.10	0.82	-5.43	-2.76	7.94	1.27	5.85	10.02	18.48	1.23	16.48	20.50	2.03	2.03	2.03	2.03
1.00	20	-4.02	0.74	-5.24	-2.81	8.05	1.33	5.54	10.23	18.49	1.23	16.48	20.50	2.22	2.22	2.22	2.22

LANDMARK - LT ELBOW CENTER (25)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE,N	3.46	0.53	2.59	4.32	11.60	0.90	10.13	13.07	12.74	1.57	10.16	15.32	0.0	0.0	0.0	0.0	
0.0	20	3.53	0.62	2.51	4.55	12.07	0.78	9.70	12.25	12.39	1.46	10.00	14.77	0.72	0.72	0.72	0.72	
0.10	20	3.61	0.82	2.26	4.96	10.35	0.80	9.04	11.66	12.05	1.47	9.64	14.66	0.71	1.43	1.43	0.71	
F	0.20	3.96	0.87	2.53	5.39	9.70	0.83	8.35	11.06	12.43	1.43	9.71	14.40	0.73	2.17	2.17	0.73	
R	0.30	4.47	0.80	3.16	5.77	9.10	0.89	7.64	10.56	12.22	1.36	9.99	14.46	0.81	2.97	2.97	0.81	
E	0.40	5.09	0.75	3.86	6.33	8.33	0.87	6.91	9.76	12.42	1.36	10.19	14.65	1.01	3.98	3.98	1.01	
M	0.50	5.58	0.67	4.47	6.68	7.78	0.98	6.17	9.38	12.50	1.26	10.43	14.57	0.74	4.73	4.73	0.74	
A	0.60	6.02	0.72	4.75	7.11	7.32	1.05	5.59	9.44	12.44	1.19	10.49	14.39	0.58	5.31	5.31	0.58	
R	0.70	6.20	0.69	5.07	7.33	6.90	1.02	5.22	8.58	12.37	1.14	10.50	14.25	0.50	5.81	5.81	0.50	
D	0.80	6.25	0.64	5.21	7.29	6.55	0.95	5.00	8.11	12.31	1.16	14.42	14.21	0.35	6.17	6.17	0.35	
N	0.90	6.27	0.63	5.25	7.30	6.20	0.92	4.69	7.70	12.26	1.19	10.30	14.21	0.36	6.52	6.52	0.36	
1.00	20	0.0	20	6.27	0.63	5.25	7.30	6.20	0.92	4.69	7.70	12.26	1.19	10.30	14.21	0.36	6.52	6.52
0.10	21	4.54	0.66	3.46	5.62	8.17	1.02	6.51	9.84	11.67	1.28	9.57	13.77	2.69	2.69	2.69	2.69	
0.20	21	4.11	0.70	2.97	5.26	8.77	1.13	6.92	10.62	11.56	1.39	9.28	13.84	0.74	3.43	3.43	0.74	
R	0.30	3.71	0.68	2.60	4.83	9.51	1.15	7.63	11.40	11.58	1.54	9.05	14.11	0.84	4.28	4.28	0.84	
E	0.40	3.37	0.79	2.08	4.66	10.18	1.20	8.20	12.15	11.66	1.68	8.92	14.43	0.75	5.03	5.03	0.75	
T	0.50	3.15	0.81	1.82	4.48	10.74	1.20	8.77	12.71	11.99	1.70	9.19	14.78	0.68	5.71	5.71	0.68	
U	0.60	21	3.14	0.83	1.78	4.50	11.02	1.07	9.27	12.77	12.22	1.73	9.39	15.05	0.36	6.08	6.08	0.36
R	0.70	21	3.15	0.79	1.86	4.45	11.44	1.29	9.32	13.57	12.54	1.71	9.73	15.35	0.53	6.61	6.61	0.53
N	0.80	21	3.29	0.74	2.08	4.50	11.60	1.00	9.56	13.23	12.66	1.63	9.98	15.34	0.24	6.85	6.85	0.24
M	0.90	20	3.39	0.61	2.39	4.38	11.55	0.88	10.11	12.99	12.70	1.62	10.05	15.36	0.11	6.96	6.96	0.11
A	1.00	20	3.46	0.53	2.59	4.32	11.60	0.90	10.13	13.07	12.74	1.57	10.16	15.32	0.09	7.05	7.05	0.09

1342

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
T	SIZE,N	12.98	0.75	11.75	14.20	10.77	0.46	10.02	11.52	12.49	0.95	10.93	11.76	1.28	1.44	1.44	1.44	
0.0	15	12.95	0.76	11.70	14.21	9.43	0.78	8.16	10.71	13.02	0.77	11.76	14.28	1.28	2.79	2.79	2.79	
F	0.20	15	13.12	1.06	11.86	14.86	8.27	1.40	5.98	10.56	13.69	0.78	12.41	14.96	1.35	1.35	1.35	1.35
D	0.30	18	13.16	0.99	11.54	14.79	6.79	1.69	4.01	9.57	13.98	0.84	12.60	15.37	1.51	4.30	4.30	4.30
R	0.40	18	13.41	0.93	11.89	14.92	5.28	2.03	1.95	8.61	14.37	0.80	13.05	15.69	1.58	1.58	1.58	1.58
M	0.50	19	13.90	0.82	12.56	15.25	5.01	0.88	3.57	6.45	14.31	0.83	12.94	15.68	0.57	6.44	6.44	0.57
A	0.60	19	14.44	0.70	13.29	15.59	4.24	0.94	2.69	5.78	14.10	0.75	12.93	15.38	0.96	7.40	7.40	0.96
R	0.70	21	14.35	0.59	13.88	15.81	3.71	0.87	2.29	5.13	13.97	0.66	12.88	15.06	0.69	8.09	8.09	0.69
D	0.80	21	15.13	0.55	14.23	16.03	3.19	0.75	1.96	4.41	13.72	0.60	12.72	14.71	0.64	8.74	8.74	0.64
N	0.90	21	15.24	0.52	14.38	16.09	2.86	0.65	1.79	3.93	13.56	0.50	12.74	14.38	0.38	9.12	9.12	0.38
T	1.00	22	15.34	0.52	14.49	16.19	2.56	0.60	1.58	3.54	13.47	0.50	12.66	14.29	0.33	9.44	9.44	0.33
0.0	22	15.34	0.52	14.49	16.19	2.56	0.60	1.58	3.54	13.47	0.50	12.66	14.29	0.33	9.44	9.44	0.33	
0.10	20	13.08	0.71	11.93	14.24	4.32	1.11	2.49	6.14	13.88	0.68	12.77	15.00	2.89	2.89	2.89	2.89	
0.20	20	12.56	0.69	11.43	13.68	5.06	1.31	2.90	7.21	14.08	0.72	12.89	15.26	0.93	3.82	3.82	0.93	
R	0.30	18	12.30	0.62	11.28	13.32	6.06	1.36	3.82	8.30	14.07	0.81	12.74	15.40	1.03	4.95	4.95	1.03
E	0.40	18	12.04	0.71	10.87	13.21	7.22	1.40	4.92	9.52	14.07	0.95	12.51	15.64	1.19	6.04	6.04	1.19
T	0.50	15	12.09	0.82	10.74	13.44	8.51	1.17	6.60	10.43	13.90	1.01	12.25	15.55	1.31	7.35	7.35	1.31
U	0.60	15	12.38	0.88	10.93	13.82	9.41	0.85	8.01	10.82	13.70	1.02	12.03	15.37	0.97	8.31	8.31	0.97
R	0.70	15	12.57	0.86	11.16	13.99	10.03	0.79	8.73	11.33	13.43	0.96	11.85	15.00	0.70	9.02	9.02	0.70
N	0.80	15	12.74	0.87	11.31	14.17	10.51	0.70	9.37	11.65	13.42	0.91	11.62	14.62	0.60	9.61	9.61	0.60
M	0.90	15	12.86	0.76	11.62	14.10	10.65	0.51	9.81	11.49	12.81	0.92	11.30	14.32	0.36	9.97	9.97	0.36
A	1.00	15	12.98	0.75	11.75	14.20	10.77	0.46	10.02	11.52	12.49	0.95	10.93	14.06	0.35	10.33	10.33	0.35

DATA FOR 65° BACK ANGLE CONFIGURATION

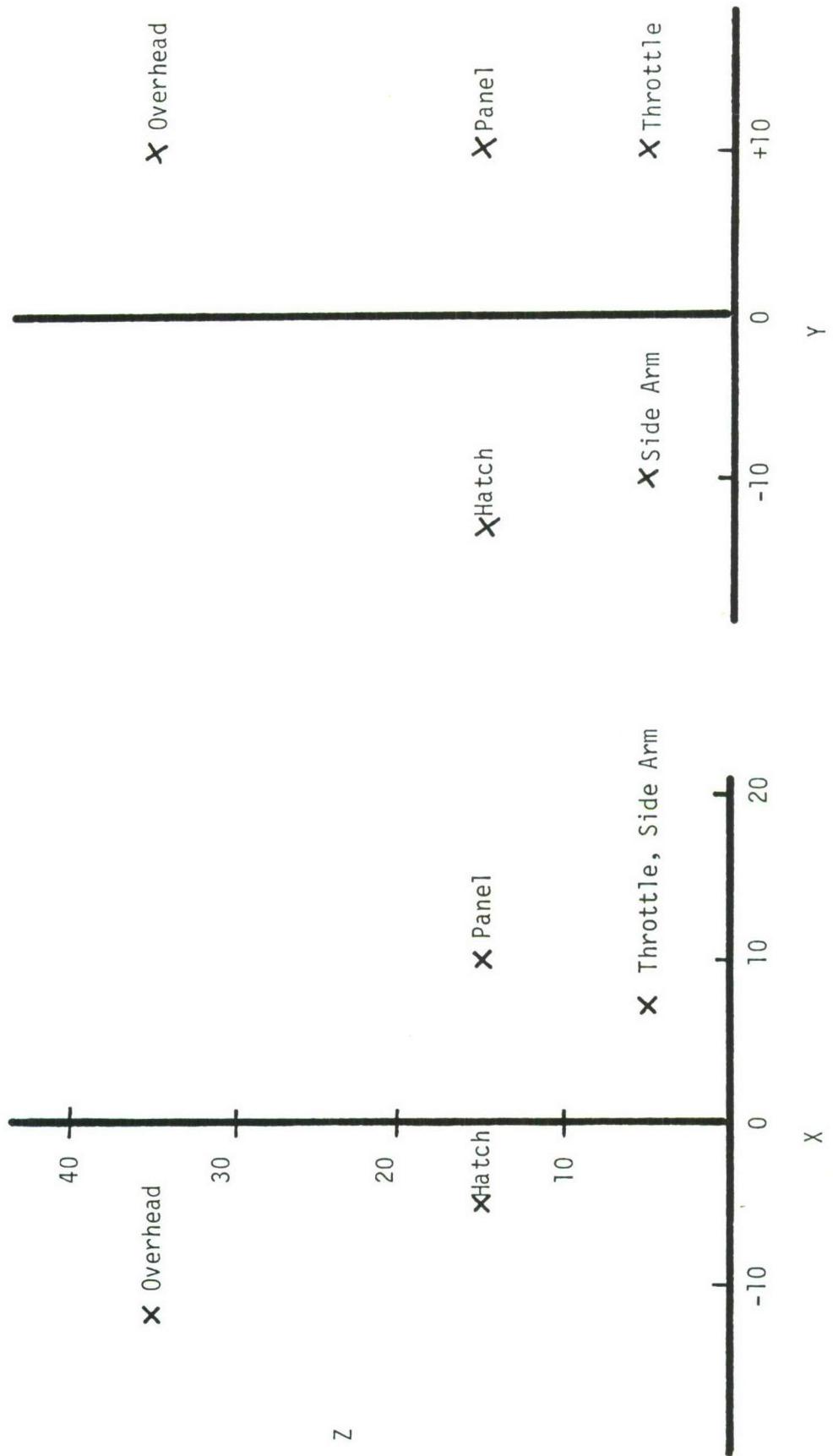


Fig. A-26. Controller Locations for 65° Back Rest Angle

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +7.0, -10.0, +5.0 TO OVER-HEAD CONTROLLER AT -12.0, +10.0, +35.0 AND RETURNS. LEFT HAND REMAINS AT THROTTLE CONTROLLER AT +7.0, +10.0, +5.0.

MOTION NUMBER - 12130
BACK ANGLE - 65

SUB-MOVEMENT	TIME DATA			RANGE
	MEAN	STD DEV		
RGHT FWD	0.91	0.09	0.80 TO 1.00	SECS.
RGHT REV	1.01	0.15	0.90 TO 1.30	SECS.

LANDMARK - NATION

(1)

TIME	SAMPLE SIZE,N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	7	-17.04	1.33	-14.86	-0.96	1.33	1.14	1.22	21.01	0.64	19.96	22.06	0.0	0.0	0.0	0.0	0.0	
0.10	7	-17.46	1.25	-19.51	-15.40	0.67	0.96	2.24	21.51	0.59	20.55	22.49	1.76	1.76	1.76	1.76	1.76	
F 0.20	7	-17.66	1.44	-19.53	-15.79	1.14	0.96	0.44	2.71	1.46	0.63	20.43	22.49	0.51	0.51	0.51	0.51	0.51
R 0.30	7	-17.30	1.23	-19.33	-15.28	1.39	1.60	-1.23	4.01	21.38	0.49	20.59	22.18	0.44	0.44	0.44	0.44	0.44
R 0.40	7	-17.20	1.32	-19.36	-15.03	1.43	1.46	-0.96	3.81	21.41	0.54	20.52	22.31	0.12	0.12	0.12	0.12	0.12
W 0.50	7	-17.63	1.03	-19.32	-15.94	1.79	0.97	0.20	3.38	21.53	0.52	20.67	22.38	0.58	0.58	0.58	0.58	0.58
A 0.60	7	-17.81	1.15	-19.70	-15.92	1.89	0.98	0.28	3.50	21.47	0.51	20.65	22.30	0.21	0.21	0.21	0.21	0.21
R 0.70	7	-17.91	1.28	-20.00	-15.82	1.88	0.96	0.31	3.46	21.42	0.52	20.55	22.25	0.13	0.13	0.13	0.13	0.13
D 0.80	7	-17.83	1.17	-19.75	-15.92	1.89	0.89	0.43	3.36	21.42	0.56	20.51	22.33	0.08	0.08	0.08	0.08	0.08
Q 0.90	7	-17.64	1.02	-19.31	-15.97	1.94	1.18	-0.00	3.88	21.28	0.73	20.09	22.47	0.24	0.24	0.24	0.24	0.24
1.00	7	-17.79	1.12	-19.62	-15.96	2.04	1.18	0.10	3.98	21.24	0.85	19.84	22.63	0.19	0.19	0.19	0.19	0.19
0.0	7	-17.79	1.12	-19.62	-15.96	2.04	1.18	0.10	3.98	21.24	0.85	19.84	22.63	0.0	0.0	0.0	0.0	0.0
0.10	7	-17.47	1.36	-19.70	-15.25	1.08	1.22	-0.92	3.07	21.13	0.76	19.87	22.38	1.02	1.02	1.02	1.02	1.02
R 0.20	7	-17.24	1.30	-19.38	-15.10	0.88	1.34	3.08	21.12	0.60	20.14	22.10	0.30	0.30	0.30	0.30	0.30	
R 0.30	7	-17.18	1.25	-19.22	-15.13	0.43	1.69	-2.33	3.20	21.04	0.59	20.07	22.01	0.46	0.46	0.46	0.46	0.46
E 0.40	7	-17.11	1.25	-19.16	-15.06	0.08	1.35	-2.13	2.29	21.02	0.58	20.08	21.97	0.36	0.36	0.36	0.36	0.36
E 0.50	7	-17.07	1.38	-19.33	-14.81	-0.38	1.19	-2.33	1.57	21.02	0.56	20.10	21.94	0.46	0.46	0.46	0.46	0.46
U 0.60	7	-17.00	1.39	-19.27	-14.72	-0.63	1.14	-2.50	1.24	21.03	0.58	20.08	21.98	0.26	0.26	0.26	0.26	0.26
R 0.70	7	-17.09	1.44	-19.44	-14.73	-0.77	1.20	-2.74	1.19	20.99	0.59	20.02	21.95	0.17	0.17	0.17	0.17	0.17
N 0.80	7	-17.11	1.35	-19.32	-14.89	-0.85	1.35	-3.07	1.37	21.02	0.59	20.05	22.00	0.09	0.09	0.09	0.09	0.09
Q 0.90	7	-17.04	1.38	-19.30	-14.77	-0.91	1.29	-3.04	1.21	20.99	0.61	19.99	21.99	0.10	0.10	0.10	0.10	0.10
1.00	7	-17.04	1.33	-19.21	-14.86	-0.96	1.33	-3.14	1.22	21.01	0.64	19.96	22.06	0.05	0.05	0.05	0.05	0.05

LANDMARK - CERVICALE

(2)

TIME	SAMPLE SIZE,N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	7	-18.63	1.06	-20.37	-16.90	-0.87	1.19	-2.83	1.08	13.21	0.75	11.98	14.43	0.0	0.0	0.0	0.0	0.0
0.10	7	-18.40	0.59	-19.37	-17.43	-0.80	1.31	-2.95	1.34	13.21	0.70	12.05	14.36	0.25	0.25	0.25	0.25	0.25
F 0.20	7	-18.67	0.82	-20.02	-17.32	-0.85	1.06	-2.59	1.00	13.12	0.67	12.01	14.22	0.29	0.29	0.29	0.29	0.29
O 0.30	7	-18.56	0.88	-20.02	-17.11	-1.02	1.06	-2.76	0.72	12.33	0.60	11.94	13.92	0.27	0.27	0.27	0.27	0.27
R 0.40	7	-18.59	1.15	-20.48	-16.70	-0.76	1.15	-2.65	1.12	13.16	0.81	11.82	14.49	0.34	0.34	0.34	0.34	0.34
W 0.50	7	-18.65	0.92	-20.16	-17.15	-0.65	1.05	-2.38	1.07	13.37	0.63	12.34	14.40	0.25	0.25	0.25	0.25	0.25
A 0.60	7	-18.50	0.80	-20.21	-17.60	-0.81	1.17	-2.73	1.11	13.50	0.56	12.58	14.42	0.32	0.32	0.32	0.32	0.32
R 0.70	7	-19.01	0.78	-20.29	-17.72	-0.61	1.25	-2.75	1.44	13.89	0.70	12.75	15.04	0.46	0.46	0.46	0.46	0.46
D 0.80	7	-18.93	0.73	-20.13	-17.74	-0.56	1.35	-2.77	1.66	13.79	0.69	12.65	14.92	0.14	0.14	0.14	0.14	0.14
Q 0.90	7	-18.58	0.90	-20.05	-17.11	-0.43	1.53	-2.93	2.08	13.86	0.50	13.04	14.67	0.38	0.38	0.38	0.38	0.38
1.00	7	-18.84	1.06	-20.05	-17.09	-0.34	1.64	-3.02	2.35	14.05	0.61	13.05	15.05	0.33	0.33	0.33	0.33	0.33
0.0	7	-18.84	1.06	-20.59	-17.09	-0.34	1.64	-3.02	2.35	14.05	0.61	13.05	15.05	0.0	0.0	0.0	0.0	0.0
0.10	7	-19.06	0.88	-20.51	-17.62	-0.75	1.39	-3.03	1.53	13.32	0.54	13.04	14.80	0.49	0.49	0.49	0.49	0.49
O 20	7	-18.77	0.87	-20.19	-17.35	-0.92	1.35	-3.13	1.29	13.51	0.40	12.85	14.17	0.54	0.54	0.54	0.54	0.54
R 0.30	7	-18.45	1.04	-20.36	-16.94	-0.77	1.32	-2.94	1.40	13.42	0.56	12.50	14.34	0.21	0.21	0.21	0.21	0.21
E 0.40	7	-18.47	0.86	-19.88	-17.05	-0.72	1.33	-2.90	1.45	13.28	0.69	12.15	14.42	0.42	0.42	0.42	0.42	0.42
T 0.50	7	-18.64	0.81	-19.97	-17.31	-0.82	1.24	-2.64	1.21	13.18	0.73	11.98	14.38	0.23	0.23	0.23	0.23	0.23
U 0.60	7	-18.67	0.82	-20.01	-17.33	-0.82	1.12	-2.66	1.03	13.22	0.73	12.02	14.42	0.05	0.05	0.05	0.05	0.05
R 0.70	7	-18.67	0.99	-20.29	-17.04	-0.83	0.99	-2.45	0.78	13.38	0.69	11.95	14.22	0.14	0.14	0.14	0.14	0.14
N 0.80	7	-18.85	1.15	-20.73	-16.96	-0.81	1.06	-2.55	0.94	13.19	0.79	11.88	14.49	0.21	0.21	0.21	0.21	0.21
Q 0.90	7	-18.90	1.03	-20.58	-17.22	-0.68	1.07	-2.64	1.07	13.20	0.74	11.98	14.41	0.14	0.14	0.14	0.14	0.14
1.00	7	-18.63	1.06	-20.37	-16.90	-0.87	1.19	-2.83	1.08	13.21	0.75	11.98	14.43	0.33	0.33	0.33	0.33	0.33

LANDMARK - SUPRASTERNALE (3)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-14.00	0.67	-15.09	-12.90	0.01	0.69	-1.11	1.14	14.58	0.44	13.86	15.30	0.0	0.0	0.0	0.0
0.10	T	-14.08	0.47	-14.85	-13.31	-0.08	0.64	-1.12	0.96	14.58	0.34	14.03	15.14	0.13	0.13	0.13	0.13
F	0.20	-14.14	0.66	-15.22	-13.06	0.03	0.51	-0.82	0.87	14.63	0.39	13.99	15.27	0.13	0.26	0.26	0.26
R	0.30	-13.85	0.76	-15.10	-12.61	0.11	0.53	-0.75	0.98	14.50	0.43	13.80	15.20	0.33	0.33	0.33	0.33
O	0.40	-13.95	0.83	-15.31	-12.59	0.30	0.57	-0.63	1.23	14.52	0.36	13.93	15.12	0.21	0.21	0.21	0.21
R	0.50	-14.33	0.53	-15.20	-13.46	0.54	0.46	-0.22	1.30	14.70	0.44	13.98	15.42	0.49	1.28	1.28	1.28
W	0.60	-12.64	4.64	-20.24	-5.03	2.49	4.82	-5.41	10.39	14.91	0.43	14.21	15.62	2.59	3.88	3.88	3.88
R	0.70	-11.40	7.95	-24.44	1.65	4.00	8.43	-9.82	17.82	14.99	0.42	14.29	15.69	1.95	5.83	5.83	5.83
D	0.80	-14.29	0.66	-15.37	-13.21	1.11	0.95	-0.46	2.67	14.90	0.52	14.05	15.76	4.09	9.92	9.92	9.92
N	0.90	-14.30	0.91	-15.80	-12.80	1.24	0.96	-0.34	2.82	14.97	0.53	14.11	15.84	0.16	10.08	10.08	10.08
1.00	T	-14.30	1.01	-15.97	-12.64	1.38	1.06	-0.36	3.12	15.03	0.40	14.38	15.69	0.15	10.23	10.23	10.23
0.0	T	-14.30	1.01	-15.97	-12.64	1.38	1.06	-0.36	3.12	15.03	0.40	14.38	15.69	0.0	0.0	0.0	0.0
0.10	T	-14.29	0.45	-15.03	-13.56	0.86	0.85	-0.53	2.26	14.91	0.56	13.99	15.82	0.53	0.53	0.53	0.53
0.20	T	-14.19	0.73	-15.38	-13.00	0.69	0.89	-0.78	2.15	14.85	0.58	13.90	15.80	0.21	0.74	0.74	0.74
R	0.30	-13.95	0.88	-15.40	-12.50	0.60	0.96	-0.97	2.18	14.67	0.55	13.77	15.57	0.31	1.05	1.05	1.05
E	0.40	-14.06	0.74	-15.27	-12.95	0.46	0.71	-0.69	1.62	14.56	0.50	13.84	15.48	0.17	1.23	1.23	1.23
T	0.50	-14.09	0.58	-15.05	-13.14	0.15	0.54	-0.74	1.04	14.51	0.50	13.79	15.43	0.32	1.55	1.55	1.55
U	0.60	-14.06	0.60	-15.05	-13.07	-0.04	0.55	-0.94	0.86	14.57	0.43	13.86	15.28	0.19	1.74	1.74	1.74
R	0.70	-14.06	0.71	-15.22	-12.90	-0.03	0.58	-0.98	0.92	14.57	0.44	13.84	15.29	0.01	1.76	1.76	1.76
N	0.80	-13.89	0.61	-14.89	-12.88	0.08	0.65	-0.67	1.15	14.57	0.43	13.87	15.27	0.20	1.96	1.96	1.96
O	0.90	-14.01	0.61	-15.01	-13.00	0.08	0.67	-0.98	1.18	14.52	0.40	13.87	15.18	0.13	2.09	2.09	2.09
1.00	T	-14.00	0.67	-15.09	-12.90	0.01	0.69	-1.11	1.14	14.58	0.44	13.86	15.30	0.09	2.18	2.18	2.18

LANDMARK - RT AROMION (4)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-16.35	1.22	-18.34	-14.36	-7.34	0.79	-8.63	-6.06	12.35	0.45	11.62	13.09	0.0	0.0	0.0	0.0
F	0.20	-17.28	0.88	-18.72	-15.84	-7.68	0.53	-8.24	-6.81	11.88	0.61	10.87	12.89	1.09	1.09	1.09	1.09
R	0.30	-17.34	0.74	-18.55	-16.13	-7.81	0.47	-8.58	-7.04	11.92	0.59	10.95	12.88	0.15	1.25	1.25	1.25
O	0.40	-17.45	0.74	-18.66	-16.24	-7.57	0.46	-8.32	-6.82	12.05	0.65	10.98	13.11	0.29	1.54	1.54	1.54
R	0.50	-17.48	0.74	-18.70	-16.26	-7.32	0.66	-8.40	-6.24	12.45	0.75	11.22	13.67	0.47	2.01	2.01	2.01
W	0.60	-17.79	1.02	-19.47	-16.11	-7.06	0.57	-8.00	-6.13	12.86	0.69	11.72	13.99	0.57	2.59	2.59	2.59
A	0.60	-18.06	1.13	-19.92	-16.20	-6.41	0.71	-7.58	-5.24	13.34	0.84	11.96	14.71	0.86	3.44	3.44	3.44
R	0.70	-18.26	1.05	-19.98	-16.05	-6.05	0.84	-7.43	-4.66	13.65	0.77	12.38	14.92	0.52	3.96	3.96	3.96
D	0.80	-18.35	0.91	-19.85	-16.85	-5.74	0.87	-7.17	-4.32	13.88	0.63	12.86	14.91	0.39	4.36	4.36	4.36
O	0.90	-18.25	0.86	-19.66	-16.84	-5.55	0.86	-6.97	-4.13	14.19	0.58	13.24	15.14	0.37	4.73	4.73	4.73
1.00	T	-18.56	0.91	-20.05	-17.08	-5.27	0.72	-6.44	-4.09	14.35	0.55	13.45	15.25	0.45	5.18	5.18	5.18
0.0	T	-18.56	0.91	-20.05	-17.08	-5.27	0.72	-6.44	-4.09	14.35	0.55	13.45	15.25	0.0	0.0	0.0	0.0
O	1.0	-18.49	0.66	-19.57	-17.41	-5.80	0.95	-7.35	-4.25	13.80	0.36	13.21	14.40	0.77	0.77	0.77	0.77
O	0.20	-18.11	0.69	-19.25	-16.97	-6.21	0.97	-7.80	-4.63	13.41	0.53	12.55	14.28	1.45	1.45	1.45	1.45
R	0.30	-17.75	0.79	-19.05	-16.46	-6.49	0.70	-7.64	-5.34	13.15	0.53	12.28	14.03	0.52	1.97	1.97	1.97
E	0.40	-17.39	0.60	-18.37	-16.41	-6.88	0.67	-7.98	-5.78	12.81	0.46	12.06	13.56	0.63	2.60	2.60	2.60
T	0.50	-17.35	0.85	-18.74	-15.96	-7.16	0.59	-8.13	-6.18	12.57	0.44	11.85	13.30	0.37	2.97	2.97	2.97
U	0.60	-17.24	0.91	-18.72	-15.75	-7.46	0.66	-8.55	-6.38	12.67	0.67	11.70	13.24	0.34	3.32	3.32	3.32
R	0.70	-17.21	1.01	-18.87	-15.56	-7.38	0.69	-8.51	-6.24	12.42	0.47	11.65	13.19	0.10	3.42	3.42	3.42
N	0.80	-16.85	1.01	-18.51	-15.19	-7.46	0.81	-8.78	-6.13	12.44	0.50	11.61	13.26	0.37	3.79	3.79	3.79
O	0.90	-16.62	0.88	-18.07	-15.18	-7.46	0.79	-8.76	-6.16	12.41	0.44	11.68	13.13	0.23	4.01	4.01	4.01
1.00	T	-16.35	1.22	-18.34	-14.36	-7.34	0.79	-8.63	-6.06	12.35	0.45	11.62	13.09	0.30	4.32	4.32	4.32

LANDMARK - RT GRIP CENTER (16)

TIME	SAMPLE SIZE,N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	7	6.29	1.04	4.59	7.99	-11.02	0.87	-12.44	-9.60	4.16	0.98	2.56	5.76	0.0	0.0	0.0	0.0
0.0	7	5.62	0.77	4.37	6.88	-10.58	-0.27	-12.58	-6.73	1.78	0.67	9.66	2.71	2.71	2.71	2.71	2.71
F	0.20	7	3.28	1.71	0.48	-7.71	1.97	-10.94	-4.48	13.25	2.18	9.67	16.83	7.46	10.17	10.17	10.17
0	0.30	7	-0.87	2.86	-5.57	3.82	-3.94	1.92	-7.09	-0.79	20.23	2.55	16.05	24.41	8.95	19.13	19.13
R	0.40	7	-5.95	3.60	-11.86	0.04	0.08	1.86	-2.97	3.12	25.13	1.41	22.82	27.44	8.12	27.25	27.25
W	0.50	7	-9.87	3.65	-15.85	-3.88	3.06	1.72	0.24	5.88	27.21	2.21	25.36	30.45	5.65	32.90	32.90
A	0.60	7	-12.33	2.97	-17.20	-7.46	5.39	1.65	2.68	8.10	30.29	1.16	28.39	32.18	4.14	37.04	37.04
R	0.70	7	-13.31	1.70	-16.10	-10.51	7.23	1.68	4.48	9.98	31.30	0.95	30.34	33.46	2.64	39.68	39.68
D	0.80	7	-13.70	0.78	-14.98	-12.43	8.43	1.35	6.22	10.65	32.33	0.82	31.59	34.27	1.63	41.31	41.31
O	0.90	7	-13.28	0.58	-14.24	-12.32	9.36	0.82	8.02	10.70	33.47	0.60	32.49	34.45	1.15	42.46	42.46
1.00	7	-13.02	0.57	-13.95	-12.09	9.78	0.50	8.97	10.60	33.56	0.49	32.77	34.36	0.50	42.97	42.97	
0.0	7	-13.02	0.57	-13.95	-12.09	9.78	0.50	8.97	10.60	33.56	0.49	32.77	34.36	0.0	0.0	0.0	
0.10	7	-12.96	0.57	-13.89	-11.02	7.01	1.98	3.77	10.26	31.67	0.91	30.17	33.16	3.36	3.36	3.36	
0.20	7	-11.23	1.91	-14.37	-8.09	3.67	3.05	-1.33	8.66	28.65	1.63	25.98	31.32	4.82	8.18	8.18	
R	0.30	7	-7.49	3.80	-13.71	-1.26	0.60	3.80	-5.63	6.84	25.18	2.38	21.27	29.09	5.96	14.14	14.14
E	0.40	7	-2.82	4.67	-10.49	4.84	-2.78	4.31	-9.85	4.28	20.84	3.69	14.78	26.70	7.22	21.35	21.35
T	0.50	7	1.20	3.23	-4.10	6.50	-6.15	4.21	-13.06	0.76	16.28	4.45	8.98	23.58	6.95	28.31	28.31
U	0.60	7	3.63	1.51	1.15	1.12	-8.94	3.57	-14.79	-1.08	11.85	4.23	4.92	18.79	5.77	34.07	34.07
R	0.70	7	4.93	1.08	3.16	6.70	-10.31	2.36	-14.19	-6.43	8.42	3.18	3.20	13.63	3.92	37.99	37.99
N	0.80	7	5.56	1.10	3.76	7.36	-10.85	1.43	-13.20	-8.50	6.12	2.14	2.62	9.63	2.44	40.43	40.43
O	0.90	7	5.99	0.88	4.55	7.43	-11.10	0.77	-12.36	-9.83	4.99	1.41	2.68	7.30	1.24	41.67	41.67
1.00	7	6.29	1.04	4.59	7.99	-11.02	0.87	-12.44	-9.60	4.16	0.98	2.56	5.76	0.89	42.56	42.56	

LANDMARK - RT TROCHANTER (18)

TIME	SAMPLE SIZE,N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					CO-ORDINATE				
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT				
T	5	1.76	0.65	0.69	2.83	-6.63	0.95	-8.19	-5.08	3.20	0.98	1.60	4.80	0.0	0.0	0.0	0.0				
0.10	5	1.98	0.65	0.92	3.05	-7.12	0.28	-7.59	-6.66	2.93	0.74	1.72	4.13	0.61	0.61	0.61	0.61				
F	0.20	6	1.77	0.74	0.56	2.97	-7.47	0.29	-7.94	-7.00	3.17	0.80	1.86	4.49	0.48	1.03	1.03	1.03			
O	0.30	6	2.02	0.97	0.97	3.61	-7.40	0.31	-7.90	-6.90	3.14	0.76	1.89	4.38	0.26	1.35	1.35	1.35			
R	0.40	6	2.15	1.01	0.50	3.80	-7.41	0.61	-8.41	-6.41	3.11	0.73	1.92	4.31	0.14	1.48	1.48	1.48			
W	0.50	6	1.83	0.69	0.70	2.97	-7.35	0.44	-8.07	-6.62	3.13	0.76	1.89	4.37	0.33	1.81	1.81	1.81			
A	0.60	6	1.91	0.64	0.86	2.95	-7.22	0.32	-7.74	-6.32	3.18	0.75	1.96	4.41	0.16	1.97	1.97	1.97			
R	0.70	6	1.74	0.65	0.67	2.81	-7.26	0.33	-7.97	-6.55	3.14	0.70	2.00	4.28	0.18	2.14	2.14	2.14			
D	0.80	6	1.75	0.71	0.59	2.90	-7.28	0.48	-8.07	-6.49	3.13	0.75	1.90	4.37	0.02	2.16	2.16	2.16			
O	0.90	6	1.93	0.70	0.78	2.80	-7.15	0.40	-7.81	-6.49	3.21	0.69	2.07	4.35	0.24	2.41	2.41	2.41			
1.00	6	1.81	0.65	0.75	2.87	-7.20	0.62	-8.21	-6.18	3.24	0.77	1.98	4.49	0.13	2.54	2.54	2.54				
0.0	6	1.81	0.65	0.75	2.87	-7.20	0.62	-8.21	-6.18	3.24	0.77	1.98	4.49	0.0	0.0	0.0	0.0				
0.10	6	1.86	0.67	0.76	2.96	-7.19	0.36	-7.77	-6.60	3.11	0.75	1.87	4.34	0.14	0.14	0.14	0.14				
O	0.20	6	1.98	0.73	0.77	3.18	-7.26	0.36	-7.85	-6.67	3.14	0.80	1.83	4.46	0.15	0.29	0.29	0.29			
R	0.30	6	2.00	0.78	0.72	3.28	-7.34	0.36	-7.93	-6.76	3.11	0.79	1.82	4.40	0.09	0.38	0.38	0.38			
E	0.40	6	1.91	0.82	0.57	3.26	-7.26	0.31	-7.77	-6.74	3.12	0.77	1.86	4.37	0.12	0.20	0.20	0.20			
T	0.50	6	1.98	0.74	0.77	3.19	-7.29	0.36	-7.89	-6.69	3.08	0.74	1.87	4.29	0.08	0.28	0.28	0.28			
U	0.60	6	1.92	0.66	0.85	3.00	-7.36	0.40	-8.02	-6.70	3.13	0.68	2.03	4.24	0.10	0.69	0.69	0.69			
R	0.70	6	1.86	0.55	3.16	-7.10	0.39	-7.74	-6.46	2.98	0.65	1.91	4.04	0.09	0.99	0.99	0.99				
N	0.80	6	1.75	0.79	0.45	3.05	-7.36	0.58	-8.31	-6.41	2.98	0.72	1.80	4.16	0.28	1.27	1.27	1.27			
O	0.90	5	2.02	0.82	0.67	3.37	-6.93	0.50	-7.75	-6.11	2.94	0.78	1.66	4.22	0.51	1.78	1.78	1.78			
1.00	5	1.76	0.65	0.69	2.83	-6.63	0.95	-8.19	-5.08	3.23	0.98	2.08	4.80	2.26	0.48	2.26	2.26	2.26			

LANDMARK - RT KNEE TOP (20)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	17.78	0.90	16.30	19.27	-4.62	1.25	-6.67	-2.57	9.97	2.08	6.56	13.39	0.0	0.0	0.0	0.0
0.10	F	17.62	0.83	16.26	18.97	-4.87	1.30	-7.00	-2.74	10.02	2.04	6.69	13.36	0.30	0.30	0.30	0.30
0.20	R	17.67	0.94	16.13	19.21	-4.87	1.39	-7.39	-2.58	9.97	2.07	6.58	13.36	0.38	0.38	0.38	0.38
0.30	D	17.74	1.14	15.87	19.62	-5.09	1.34	-7.28	-2.90	9.99	2.07	6.58	13.38	0.23	0.23	0.23	0.23
0.40	E	17.88	1.27	15.80	19.96	-5.22	1.41	-7.53	-2.90	10.07	2.04	6.73	13.42	0.20	0.20	0.20	0.20
0.50	W	17.67	0.88	16.23	19.11	-4.95	1.40	-7.26	-2.65	10.30	2.01	6.71	13.30	0.34	0.34	0.34	0.34
A	0.60	17.55	1.03	15.86	19.23	-5.03	1.39	-7.30	-2.75	10.32	2.06	6.64	13.39	0.14	0.14	0.14	0.14
R	0.70	17.63	0.87	16.20	19.07	-5.04	1.28	-7.14	-2.94	9.98	2.06	6.60	13.36	0.10	0.10	0.10	0.10
D	0.80	17.64	0.91	16.14	19.14	-5.01	1.38	-7.28	-2.75	9.96	2.06	6.57	13.34	0.04	0.04	0.04	0.04
N	0.90	17.75	0.91	16.25	19.25	-5.03	1.26	-7.10	-2.96	10.21	2.03	6.67	13.34	0.12	0.12	0.12	0.12
1.00	T	17.72	0.86	16.32	19.12	-4.93	1.14	-6.80	-3.07	9.95	1.99	6.68	13.22	0.11	0.11	0.11	0.11
0.0	T	17.72	0.86	16.32	19.12	-4.93	1.14	-6.80	-3.07	9.95	1.99	6.68	13.22	0.0	0.0	0.0	0.0
0.10	F	17.68	0.95	16.13	19.24	-5.03	1.20	-7.01	-3.06	9.89	1.97	6.66	13.12	0.12	0.12	0.12	0.12
0.20	R	17.71	0.85	16.32	19.09	-5.03	1.34	-7.23	-2.83	9.99	1.99	6.72	13.26	0.10	0.10	0.10	0.10
0.30	D	17.86	0.98	16.26	19.46	-4.95	1.28	-7.05	-2.86	10.06	2.01	6.76	13.36	0.18	0.18	0.18	0.18
0.40	E	17.81	1.00	16.17	19.44	-4.81	1.29	-6.93	-2.70	10.04	2.02	6.73	13.35	0.15	0.15	0.15	0.15
0.50	T	17.73	0.95	16.17	19.29	-4.83	1.27	-6.92	-2.75	10.38	2.00	6.79	13.36	0.09	0.09	0.09	0.09
U	0.60	17.80	0.90	16.33	19.28	-4.84	1.30	-6.98	-2.71	10.05	2.01	6.75	13.34	0.08	0.08	0.08	0.08
R	0.70	17.82	0.96	16.26	19.39	-4.82	1.27	-6.90	-2.73	9.98	2.04	6.63	13.32	0.08	0.08	0.08	0.08
N	0.80	17.81	0.98	16.20	19.42	-4.68	1.34	-6.87	-2.49	10.02	2.03	6.70	13.35	0.14	0.14	0.14	0.14
O	0.90	17.83	0.85	16.44	19.22	-4.62	1.22	-6.63	-2.62	9.93	2.01	6.63	13.24	0.11	0.11	0.11	0.11
1.00	T	17.78	0.90	16.30	19.27	-4.62	1.25	-6.67	-2.57	9.97	2.08	6.56	13.39	0.06	0.06	0.06	0.06

LANDMARK - RT SHOULDER CENTER (22)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	13.81	0.79	-15.11	-12.50	-7.68	0.70	-9.83	-6.53	11.32	0.86	9.90	12.73	0.0	0.0	0.0	0.0
0.10	F	14.24	0.66	-15.12	-13.15	-8.11	0.69	-9.25	-6.97	10.80	0.93	9.28	12.33	0.80	0.80	0.80	0.80
0.20	R	14.29	0.81	-15.61	-12.97	-7.93	0.72	-9.11	-6.74	10.97	0.79	9.68	12.26	0.25	0.25	1.05	1.05
0.30	D	13.99	0.96	-15.57	-12.42	-7.89	0.71	-9.05	-6.73	11.62	0.71	10.46	12.78	0.72	0.72	1.77	1.77
0.40	E	13.69	1.25	-15.73	-11.64	-7.84	0.59	-8.80	-6.88	12.82	0.65	11.76	13.89	1.24	1.24	3.01	3.01
0.50	W	14.33	1.13	-16.19	-12.48	-7.04	0.62	-8.06	-6.02	13.89	0.87	12.47	15.32	1.49	1.49	4.50	4.50
A	0.60	14.87	1.29	-16.99	-12.75	-6.04	0.99	-7.67	-4.42	14.86	0.90	13.38	16.34	1.49	1.49	5.98	5.98
R	0.70	15.55	1.26	-17.62	-13.48	-5.44	1.00	-7.08	-3.81	15.27	0.69	14.13	16.41	0.99	0.99	6.76	6.76
D	0.80	15.95	1.14	-17.82	-14.08	-5.02	1.00	-6.67	-3.38	15.61	0.75	14.37	16.84	0.67	0.67	7.65	7.65
O	0.90	16.02	1.06	-17.76	-14.29	-4.56	1.03	-6.24	-2.88	15.91	0.76	14.66	17.16	0.56	0.56	8.21	8.21
1.00	T	16.20	1.06	-17.93	-14.47	-4.35	0.80	-5.65	-3.04	16.23	1.01	14.58	17.88	0.42	0.42	8.63	8.63
0.0	T	16.20	1.06	-17.93	-14.47	-4.35	0.80	-5.65	-3.04	16.23	1.01	14.58	17.88	0.0	0.0	0.0	0.0
0.10	R	14.34	1.09	-17.20	-13.64	-5.30	1.05	-7.03	-3.56	15.54	0.71	16.70	17.41	1.41	1.41	2.89	2.89
0.20	E	14.39	1.09	-16.13	-12.72	-6.13	1.03	-7.82	-4.44	14.90	0.61	13.40	15.40	1.48	1.48	4.30	4.30
0.30	T	14.39	0.93	-15.61	-12.54	-6.85	0.82	-8.19	-5.51	13.37	0.85	11.98	14.76	1.40	1.40	5.46	5.46
0.40	U	14.36	0.89	-15.81	-12.91	-7.24	0.89	-8.70	-5.78	12.30	0.77	11.04	13.55	1.17	1.17	6.14	6.14
0.50	R	14.53	0.84	-15.91	-13.15	-7.64	0.88	-9.08	-6.02	11.72	0.72	10.54	12.90	0.68	0.68	6.51	6.51
0.60	F	14.45	0.99	-16.03	-12.83	-7.83	0.53	-8.70	-6.95	11.49	0.76	10.19	12.68	0.37	0.37	6.76	6.76
0.70	N	14.26	0.96	-15.84	-12.69	-7.74	0.66	-8.82	-6.65	11.34	0.86	9.93	12.74	0.22	0.22	6.98	6.98
0.80	D	14.09	0.93	-15.62	-12.56	-7.70	0.64	-8.75	-6.66	11.30	0.90	9.82	12.77	0.18	0.18	7.17	7.17
0.90	T	13.81	0.79	-15.11	-12.50	-7.68	0.70	-8.83	-6.53	11.32	0.86	9.90	12.73	0.28	0.28	7.45	7.45

LANDMARK - RT ELBOW CENTER { 24 }

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-6.43	0.99	-8.04	-4.81	-9.66	0.67	-10.76	-8.56	4.93	1.30	2.79	7.06	0.0	0.0	0.0	0.0
0.10	T	-6.73	0.39	-7.36	-6.10	-9.94	0.58	-10.89	-8.99	4.86	0.83	3.49	6.23	0.41	0.41	0.41	0.41
F	0.20	-6.25	0.47	-7.02	-5.48	-9.90	0.80	-11.20	-8.59	6.42	1.26	4.35	8.49	1.64	2.05	1.64	2.05
R	0.30	-5.25	0.65	-6.31	-4.19	-9.06	1.02	-10.73	-7.39	10.07	1.67	7.33	12.81	3.87	5.92	3.87	5.92
E	0.40	-4.93	2.15	-6.97	-2.88	-7.38	0.95	-8.95	-5.82	14.96	1.81	11.94	15.18	1.11	1.11	1.11	1.11
W	0.50	-6.43	2.18	-10.00	-2.86	-5.22	1.30	-7.30	-3.08	18.75	1.92	15.61	21.89	4.61	15.72	4.61	15.72
A	0.60	-8.79	2.64	-13.12	-4.46	-3.32	1.39	-5.59	-1.04	21.46	1.53	18.95	23.98	4.07	19.79	4.07	19.79
R	0.70	-10.52	2.33	-14.34	-6.70	-1.29	-3.83	-0.40	23.02	1.21	21.04	25.00	2.83	22.62	2.83	22.62	
D	0.80	-11.73	1.91	-14.83	-8.57	-0.53	1.21	-2.51	1.46	23.76	0.80	22.45	25.07	1.83	24.44	1.83	24.44
O	0.90	-12.55	1.52	-14.74	-9.76	0.41	0.99	-1.22	2.03	24.09	0.45	23.36	24.82	1.13	25.58	1.13	25.58
1.00		-12.55	1.20	-14.52	-10.59	1.00	0.94	-0.55	2.54	24.25	0.34	23.68	24.81	0.68	26.26	0.68	26.26
0.0		-12.55	1.20	-14.52	-10.59	1.00	0.94	-0.55	2.54	24.25	0.34	23.68	24.81	0.0	0.0	0.0	0.0
0.10		-9.98	1.54	-12.51	-7.45	-1.72	1.49	-4.16	0.71	22.75	0.95	21.19	24.31	4.03	4.03	4.03	4.03
0.20		-7.37	1.61	-10.01	-4.74	-4.14	2.03	-7.47	-0.81	19.59	2.29	23.35	4.76	8.79	8.79	8.79	8.79
R	0.30	-5.65	1.14	-7.51	-3.78	-6.91	2.04	-10.25	-3.57	14.91	2.95	10.07	19.14	5.71	14.50	5.71	14.50
E	0.40	-5.11	1.81	-8.08	-2.14	-9.07	1.99	-12.32	-5.81	10.03	3.29	4.64	15.41	5.36	19.86	5.36	19.86
T	0.50	-5.50	1.58	-8.48	-3.21	-7.95	1.46	-11.95	-7.15	7.86	2.31	4.08	11.64	2.36	22.21	2.36	22.21
U	0.60	-6.54	1.44	-8.91	-4.18	-9.95	1.17	-11.87	-8.03	6.22	1.67	3.69	8.96	1.81	24.02	1.81	24.02
R	0.70	-7.03	1.16	-8.93	-5.12	-10.10	0.85	-11.50	-8.71	5.22	1.38	2.95	7.49	1.12	25.14	1.12	25.14
N	0.80	-6.97	1.20	-8.93	-5.01	-9.88	0.73	-11.08	-8.67	5.05	1.43	2.70	7.40	0.28	25.43	0.28	25.43
O	0.90	-6.69	0.99	-8.32	-5.06	-9.73	0.71	-10.90	-8.56	4.89	1.34	2.69	7.09	0.36	25.79	0.36	25.79
1.00	0.99	-6.43	0.48	-8.04	-4.81	-9.66	0.67	-10.76	-8.56	4.93	1.30	2.79	7.06	0.27	26.06	0.27	26.06

LANDMARK - RT WRIST CENTER { 26 }

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	2.87	0.96	1.31	4.44	-10.55	0.83	-11.91	-9.19	4.13	1.23	2.12	6.14	0.0	0.0	0.0	0.0
F	0.20	2.49	0.62	1.48	3.51	-10.12	1.20	-12.09	-8.15	6.12	1.54	3.58	8.65	2.06	2.06	2.06	2.06
R	0.30	1.09	2.01	-4.19	-7.76	1.57	-10.33	-5.18	11.78	2.49	7.69	15.87	6.30	8.36	6.30	8.36	8.36
O	0.40	-1.56	2.63	-5.87	2.05	-4.53	1.55	-7.08	-1.09	17.35	2.29	13.60	21.11	6.96	15.32	6.96	15.32
R	0.50	-5.23	3.03	-10.19	-0.27	-1.33	1.45	-3.71	1.05	22.10	1.36	19.87	24.32	6.80	22.12	6.80	22.12
-8.37	3.34	-14.04	-1.31	1.58	-1.28	1.31	-1.28	3.91	25.32	2.78	22.78	27.46	5.34	27.46	5.34	27.46	
A	0.60	-10.93	2.85	-15.51	-6.15	3.66	1.59	-1.05	6.27	27.71	1.15	25.82	29.61	4.05	31.50	4.05	31.50
R	0.70	-12.26	2.01	-15.56	-8.97	5.50	1.53	2.99	8.00	29.37	0.94	27.82	30.91	2.86	34.36	2.86	34.36
D	0.80	-13.35	1.24	-15.08	-11.02	6.72	1.25	4.67	8.77	30.25	0.76	28.99	31.50	1.70	36.06	1.70	36.06
O	0.90	-13.06	0.70	-14.20	-11.92	7.50	0.71	6.34	8.66	30.60	0.63	29.57	31.62	0.86	36.92	0.86	36.92
1.00	6	-12.74	0.48	-13.53	-11.94	8.17	0.55	7.26	9.03	30.88	0.48	30.09	31.67	0.79	37.71	0.79	37.71
0.0		-12.74	0.48	-13.53	-11.94	8.17	0.55	7.26	9.03	30.88	0.48	30.09	31.67	0.0	0.0	0.0	0.0
0.10		-11.54	0.83	-12.90	-10.18	4.44	2.17	0.88	8.03	28.75	0.74	27.54	29.97	4.45	4.45	4.45	4.45
F	0.20	-9.66	1.60	-12.28	-7.03	1.21	3.65	-4.78	7.21	25.74	1.33	23.56	27.91	4.80	9.26	4.80	9.26
R	0.30	-6.14	2.71	-11.19	-2.30	-0.87	3.31	-6.29	2.53	22.53	2.39	18.61	26.46	4.80	14.06	4.80	14.06
E	0.40	-3.16	3.22	-8.44	2.11	-3.85	3.55	-9.68	1.98	18.33	3.26	12.99	23.67	6.28	20.34	6.28	20.34
T	0.50	-0.36	2.35	-4.22	3.49	-6.63	3.46	-12.31	-0.95	14.03	3.65	8.03	20.02	5.84	26.17	5.84	26.17
U	0.60	1.15	1.23	-0.87	3.17	-8.74	3.00	-13.67	-3.82	10.28	3.40	4.71	15.85	4.56	30.74	4.56	30.74
R	0.70	1.14	1.14	0.07	3.81	-9.99	2.24	-13.66	-6.31	7.53	3.28	4.80	11.78	3.12	33.85	3.12	33.85
N	0.80	2.21	1.06	0.47	3.95	-10.52	1.45	-12.90	-8.14	5.70	1.83	2.70	8.69	1.93	35.78	1.93	35.78
O	0.90	2.49	0.94	4.04	-10.53	0.90	-12.06	-9.10	4.84	1.51	2.36	7.33	0.90	36.68	0.90	36.68	
1.00	2.87	0.96	4.44	-10.53	0.83	-11.91	4.13	-11.91	4.13	1.23	6.14	0.81	37.49	0.81	37.49	0.81	37.49

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +7.0, +10.0, +5.0 TO OVER-HEAD CONTROLLER AT -12.0, +10.0, +35.0 AND RETURNS. RIGHT HAND REMAINS AT SIDE-ARM CONTROLLER AT +7.0, -10.0, -5.0.

MOTION NUMBER - 22230
BACK ANGLE - 65

SUB-MOVEMENT

TIME DATA			
	MEAN	STD DEV	RANGE
LEFT FWD	0.79	0.16	0.60 TO 1.00 SECS.
LEFT REV	0.70	0.17	0.50 TO 0.90 SECS.

LANDMARK - NASION

(1)

TIME	SAMPLE SIZE,N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-17.45	1.15	-19.34	-15.56	1.67	0.53	0.15	3.19	20.48	0.81	19.16	21.81	0.0	0.0	0.0	0.0
0.10	F	-17.52	1.07	-19.27	-15.76	1.35	1.00	-0.29	2.99	20.18	0.63	19.95	22.02	0.60	0.60	0.60	0.60
0.20	R	-17.68	1.27	-19.76	-15.60	1.37	1.04	-0.33	3.07	21.04	0.59	20.07	22.01	0.18	0.77	0.77	0.77
0.30	D	-17.68	1.10	-19.48	-15.88	1.61	0.55	0.04	3.17	21.06	0.56	20.14	21.97	0.24	1.01	1.01	1.01
0.40	N	-17.72	1.05	-19.45	-15.99	1.71	0.83	0.34	3.08	21.39	0.40	20.43	21.75	0.11	1.12	1.12	1.12
0.50	W	-17.73	1.06	-19.66	-15.99	1.71	0.87	0.38	3.13	21.10	0.42	20.41	21.79	0.01	1.14	1.14	1.14
A	0.60	-17.80	0.96	-19.37	-16.23	1.68	0.89	0.22	3.14	21.11	0.45	20.48	21.95	0.14	1.28	1.28	1.28
R	0.70	-17.77	0.99	-19.40	-16.14	1.77	0.92	0.26	3.29	21.17	0.50	20.35	21.98	0.11	1.39	1.39	1.39
D	0.80	-17.70	1.04	-19.41	-15.99	1.74	0.95	0.18	3.29	21.09	0.41	20.41	21.77	0.11	1.50	1.50	1.50
N	0.90	-17.69	1.03	-19.38	-15.99	1.63	0.85	0.23	3.03	21.03	0.44	20.31	21.75	0.12	1.62	1.62	1.62
1.00	W	-17.55	0.97	-19.14	-15.96	1.71	0.78	0.44	2.99	20.98	0.65	19.81	21.94	0.23	1.85	1.85	1.85
0.0	F	-17.55	0.97	-19.14	-15.96	1.71	0.78	0.44	2.99	20.88	0.65	19.81	21.94	0.0	0.0	0.0	0.0
R	0.20	-17.36	1.02	-19.12	-15.77	1.64	0.85	0.24	3.03	20.58	0.67	19.58	21.78	0.23	0.23	0.23	0.23
E	0.40	-17.48	1.21	-19.21	-15.52	1.74	0.83	0.38	3.09	20.53	0.72	19.35	21.70	0.20	0.43	0.43	0.43
T	0.50	-17.26	1.07	-19.02	-15.50	1.67	0.76	0.17	3.06	20.49	0.70	19.34	21.64	0.12	0.56	0.56	0.56
U	0.60	-17.30	1.13	-19.16	-15.44	1.70	0.77	0.27	3.07	20.52	0.72	19.32	21.68	0.11	0.67	0.67	0.67
R	0.70	-17.44	1.05	-19.17	-15.72	1.74	0.84	0.36	3.11	20.57	0.76	19.32	21.73	0.16	0.83	0.83	0.83
N	0.80	-17.47	1.04	-19.17	-15.77	1.76	0.83	0.41	3.12	20.48	0.71	19.31	21.65	0.09	1.15	1.15	1.15
D	0.90	-17.47	1.04	-19.18	-15.76	1.73	0.88	0.29	3.17	20.48	0.77	19.21	21.75	0.03	1.18	1.18	1.18
W	1.00	-17.45	1.15	-19.34	-15.56	1.67	0.93	0.15	3.19	20.48	0.81	19.16	21.81	0.07	1.24	1.24	1.24

LANDMARK - CERVICALE

(2)

TIME	SAMPLE SIZE,N	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-18.76	1.07	-20.51	-17.01	0.27	2.39	-3.65	4.19	12.56	0.88	11.23	14.13	0.0	0.0	0.0	0.0
0.10	F	-18.82	0.97	-20.41	-17.23	0.09	2.54	-4.06	4.25	12.78	0.86	11.36	14.19	0.21	0.21	0.21	0.21
R	0.20	-18.81	1.15	-20.69	-16.33	0.01	2.67	-4.37	4.30	12.58	0.71	11.52	13.85	0.12	0.33	0.33	0.33
O	0.30	-18.79	1.30	-20.92	-16.67	0.04	2.65	-4.31	4.40	12.83	0.79	11.58	14.17	0.20	0.53	0.53	0.53
R	0.40	-18.89	1.36	-21.12	-16.67	0.42	2.52	-3.52	4.56	13.30	0.85	11.59	14.40	0.41	0.94	0.94	0.94
W	0.50	-18.87	1.43	-21.21	-16.53	0.58	2.52	-3.55	4.71	12.92	0.81	11.59	14.25	1.12	1.12	1.12	1.12
A	0.60	-18.96	1.28	-21.06	-16.87	0.50	2.66	-3.85	4.86	13.05	0.87	11.63	14.48	0.18	1.29	1.29	1.29
R	0.70	-18.88	1.15	-20.86	-17.09	0.62	2.66	-3.74	4.97	13.05	0.98	11.52	14.73	0.13	1.43	1.43	1.43
D	0.80	-18.94	1.13	-20.80	-17.09	0.66	2.64	-3.66	4.98	13.03	0.93	11.51	14.55	0.11	1.53	1.53	1.53
N	0.90	-19.08	1.16	-20.98	-17.18	0.54	2.75	-3.95	5.04	13.14	0.96	11.56	14.73	0.22	1.75	1.75	1.75
1.00	T	-19.17	1.29	-21.29	-17.06	0.53	2.74	-3.97	5.03	13.13	1.08	11.36	14.90	0.09	1.84	1.84	1.84
0.0	F	-19.17	1.29	-21.29	-17.06	0.53	2.74	-3.97	5.03	13.13	1.08	11.36	14.90	0.0	0.0	0.0	0.0
R	0.20	-19.15	1.09	-20.94	-17.36	0.29	2.65	-4.05	4.63	13.11	0.97	11.51	14.70	0.25	0.25	0.25	0.25
O	0.30	-19.18	1.09	-21.01	-17.35	0.23	2.73	-4.25	4.70	12.98	0.84	11.60	14.36	0.14	0.39	0.39	0.39
R	0.40	-19.12	1.24	-21.16	-17.09	0.57	2.47	-3.62	4.49	12.85	0.80	11.53	14.17	0.25	0.64	0.64	0.64
T	0.50	-18.86	1.22	-20.85	-16.86	0.35	2.49	-3.73	4.43	12.58	0.73	11.48	13.88	0.36	1.16	1.16	1.16
U	0.60	-18.79	1.07	-20.55	-17.03	0.26	2.32	-3.53	4.06	12.60	0.80	11.28	13.92	0.14	1.30	1.30	1.30
R	0.70	-18.93	1.01	-20.59	-17.28	0.34	2.26	-3.38	4.05	12.67	0.86	11.27	14.08	0.18	1.48	1.48	1.48
N	0.80	-18.92	1.21	-20.91	-16.93	0.42	2.32	-3.38	4.22	12.71	0.83	11.25	14.16	0.09	1.57	1.57	1.57
D	0.90	-18.77	1.25	-20.83	-16.72	0.35	2.39	-3.56	4.27	12.70	0.90	11.22	14.18	0.16	1.73	1.73	1.73
W	1.00	-18.76	1.07	-20.51	-17.01	0.27	2.39	-3.65	4.19	12.53	0.88	11.23	14.13	0.09	1.82	1.82	1.82

LANDMARK - SUPRASTERNAL (3)

TIME	SAMPLE SIZE, N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	7	-14.61	1.25	-16.66	-12.57	0.20	1.55	-2.34	2.73	13.93	0.35	13.35	14.50	0.0	0.0	0.0	0.0
0.0	7	-14.61	1.31	-12.47	0.08	1.81	-2.88	3.05	14.01	0.32	13.48	14.54	0.14	0.14	0.14	0.14	
0.10	7	-14.68	1.26	-16.74	-12.62	0.15	1.80	-2.81	3.10	13.92	0.33	13.38	14.46	0.14	0.14	0.14	0.28
F	0.20	-14.68	1.27	-16.87	-12.70	0.24	1.51	-2.90	3.07	13.96	0.27	13.51	14.40	0.14	0.14	0.14	0.42
0	0.30	-14.78	1.30	-17.01	-12.76	0.17	1.65	-2.54	2.88	14.07	0.29	13.60	14.54	0.17	0.17	0.17	0.59
R	0.40	-14.89	1.39	-17.38	-12.82	0.12	1.60	-2.75	2.50	13.99	0.46	13.23	14.74	0.37	0.37	0.37	0.96
W	0.50	-15.10	1.30	-17.08	-13.05	0.11	1.66	-2.82	2.61	14.10	0.37	13.50	14.71	0.12	0.12	0.12	1.03
A	0.60	-15.06	1.23	-17.08	-13.05	0.11	1.66	-2.82	2.61	14.10	0.37	13.50	14.71	0.12	0.12	0.12	1.03
R	0.70	-14.97	1.15	-16.86	-13.08	0.04	1.78	-2.88	2.97	14.13	0.41	13.46	14.80	0.18	0.18	0.18	1.27
D	0.80	-14.98	1.17	-16.90	-13.06	0.01	1.69	-2.77	2.78	14.12	0.39	13.48	14.77	0.04	0.04	0.04	1.31
O	0.90	-15.27	1.47	-17.68	-12.85	0.26	1.85	-3.29	3.76	14.13	0.45	13.39	14.87	0.39	0.39	0.39	1.71
1.00	7	-15.28	1.35	-17.49	-13.06	0.20	1.82	-3.19	2.79	14.15	0.33	13.60	14.69	0.07	0.07	0.07	1.77
0.0	7	-15.28	1.35	-17.49	-13.06	0.20	1.82	-3.19	2.79	14.15	0.33	13.60	14.69	0.0	0.0	0.0	0.0
0.10	7	-14.86	1.07	-16.61	-13.10	0.10	1.60	-2.72	2.53	14.16	0.40	13.50	14.81	0.43	0.43	0.43	0.43
0.20	7	-14.92	1.08	-16.70	-13.15	0.21	1.64	-2.89	2.48	14.03	0.42	13.35	14.71	0.18	0.18	0.18	0.62
R	0.30	-14.92	1.17	-16.84	-13.00	0.02	1.49	-2.43	2.47	14.03	0.40	13.33	14.66	0.23	0.23	0.23	0.85
E	0.40	-15.01	1.31	-17.16	-12.87	0.14	1.47	-2.27	2.55	13.99	0.41	13.32	14.66	0.15	0.15	0.15	1.00
T	0.50	-15.03	1.25	-17.08	-12.98	0.02	1.76	-2.90	2.86	13.92	0.38	13.29	14.54	0.18	0.18	0.18	1.18
O	0.60	-14.87	1.07	-16.63	-13.11	0.12	1.67	-2.62	2.87	13.87	0.39	13.23	14.51	0.22	0.22	0.22	1.40
R	0.70	-14.79	1.13	-16.65	-12.93	0.34	1.52	-2.15	2.83	13.97	0.38	13.35	14.59	0.25	0.25	0.25	1.65
N	0.80	-14.81	1.06	-16.55	-13.06	0.24	1.48	-2.19	2.68	14.21	0.36	13.41	14.60	0.10	0.10	0.10	1.76
O	0.90	-14.93	1.17	-16.84	-13.01	0.03	1.70	-2.76	2.81	13.92	0.35	13.34	14.51	0.26	0.26	0.26	2.01
1.00	7	-14.61	1.25	-16.66	-12.57	0.20	1.55	-2.34	2.73	13.93	0.35	13.35	14.50	0.36	0.36	0.36	2.37

LANDMARK - LT ACRMION (5)

TIME	SAMPLE SIZE, N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	7	-17.16	0.85	-18.56	-15.76	7.54	0.56	6.62	8.46	11.49	0.44	10.76	12.21	0.0	0.0	0.0	0.0
0.0	7	-17.35	0.60	-18.34	-16.36	7.39	0.53	6.52	8.27	11.26	0.48	10.47	12.06	0.32	0.32	0.32	0.32
0.10	7	-17.75	0.54	-18.64	-16.16	7.47	0.69	6.34	8.60	11.03	0.46	10.27	11.79	0.47	0.47	0.47	0.80
F	0.20	-17.85	0.48	-18.64	-17.06	7.49	0.80	6.18	8.80	11.05	0.54	10.18	11.93	0.11	0.11	0.11	0.90
O	0.30	-17.90	0.39	-18.55	-17.26	7.42	0.64	6.37	8.46	11.39	0.47	10.31	11.86	0.10	0.10	0.10	1.00
R	0.40	-17.90	0.51	-18.61	-17.03	7.03	0.59	7.05	8.06	11.99	0.39	10.36	11.66	0.40	0.40	0.40	1.40
W	0.50	-18.86	0.51	-18.69	-17.03	7.05	0.87	5.62	6.48	11.16	0.50	10.34	11.98	0.32	0.32	0.32	1.72
A	0.60	-18.14	0.62	-19.16	-17.13	7.05	0.87	5.62	6.48	11.16	0.50	10.34	11.98	0.32	0.32	0.32	1.72
R	0.70	-18.23	0.56	-19.16	-17.31	7.06	0.97	5.47	6.66	12.42	3.10	7.33	17.51	1.26	1.26	1.26	2.59
D	0.80	-18.43	0.46	-19.19	-17.67	7.06	0.90	5.59	8.53	11.14	0.42	10.45	11.82	1.30	1.30	1.30	4.29
O	0.90	-18.59	0.61	-19.60	-17.58	6.99	0.80	5.67	8.30	11.12	0.46	10.36	11.88	0.18	0.18	0.18	4.46
1.00	5	-18.49	0.75	-19.73	-17.26	7.01	1.01	5.35	8.66	11.11	0.57	10.17	12.04	0.10	0.10	0.10	4.56
0.0	5	-18.49	0.75	-19.73	-17.26	7.01	1.01	5.35	8.66	11.11	0.57	10.17	12.04	0.0	0.0	0.0	0.0
0.10	5	-18.43	0.66	-19.56	-17.40	6.97	0.87	5.54	8.41	11.03	0.39	10.40	11.66	0.08	0.08	0.08	0.08
0.20	5	-18.65	0.75	-19.88	-17.43	7.13	0.77	5.87	8.40	11.01	0.31	10.49	11.52	0.24	0.24	0.24	0.42
R	0.30	-18.77	0.67	-19.86	-17.68	7.38	0.88	5.93	8.83	11.02	0.35	10.44	11.58	0.27	0.27	0.27	0.59
E	0.40	-18.73	0.73	-19.94	-17.53	7.34	0.70	6.19	8.49	11.02	0.55	10.13	11.92	0.06	0.06	0.06	0.65
T	0.50	-18.12	0.64	-19.16	-17.08	7.53	0.53	6.66	8.41	11.01	0.39	10.37	11.65	0.64	0.64	0.64	1.29
U	0.60	-17.68	0.51	-18.52	-16.84	7.44	0.52	6.58	8.30	11.23	0.46	10.47	11.99	0.50	0.50	0.50	1.80
R	0.70	-17.51	0.71	-18.68	-16.35	7.52	0.54	6.63	8.41	11.07	0.55	10.55	12.20	0.23	0.23	0.23	2.03
N	0.80	-17.35	0.85	-18.74	-15.96	7.55	0.56	6.63	8.47	11.43	0.50	10.61	12.25	0.18	0.18	0.18	2.20
O	0.90	-17.23	0.84	-18.60	-15.86	7.52	0.55	6.61	8.42	11.46	0.49	10.65	12.27	0.13	0.13	0.13	2.33
1.00	7	-17.16	0.85	-18.56	-15.76	7.54	0.56	6.62	8.46	11.49	0.44	10.76	12.21	0.08	0.08	0.08	2.41

LANDMARK - LT GRIP CENTER (17)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0 . 0	T	5.53	0.86	4.13	6.94	10.90	0.25	10.49	11.31	5.81	0.49	6.61	0.0	0 . 0	0.0	0.0	0 . 0
0 . 10	F	7	4.39	1.00	2.76	6.03	10.79	0.72	9.61	11.98	1.94	5.68	0 . 0	0.0	0.0	0.0	0 . 0
0 . 20	O	7	0.13	1.51	-2.35	2.62	10.24	0.92	8.73	11.75	14.54	2.91	9.77	19.31	7.12	10.38	3 . 27
0 . 30	R	7	5.65	-9.86	-1.44	9.64	0.95	8.07	11.20	21.24	1.92	18.09	24.38	8.86	19.25	19.25	19.25
0 . 40	R	7	-11.11	4.30	-18.16	-4.07	9.23	0.97	7.65	10.82	26.55	3.23	21.25	26.88	7.63	26.88	26.88
0 . 50	W	7	-11.82	2.10	-15.26	-8.37	9.48	0.67	8.38	10.57	27.04	2.31	23.25	30.83	0 . 89	27.77	27.77
A	A	7	-13.26	1.58	-15.85	-10.68	9.42	0.73	8.23	10.62	29.21	2.07	25.81	32.61	2.61	30.38	30.38
R	0 . 70	7	-13.68	0.86	-15.08	-12.28	9.68	0.64	8.62	10.74	30.84	1.70	28.05	33.63	1.70	32.08	32.08
D	0 . 80	7	-13.72	0.67	-14.81	-12.62	9.30	0.72	8.62	10.98	31.55	1.00	30.01	33.28	0.82	32.90	32.90
N	0 . 90	7	-13.73	0.94	-15.27	-12.18	9.70	0.99	8.08	11.32	31.70	0.79	30.40	33.00	0.11	33.01	33.01
1 . 00	R	7	-13.80	0.98	-15.42	-12.19	9.94	0.99	8.31	11.57	31.85	0.60	30.86	32.83	0.29	33.30	33.30
0 . 0	T	7	-13.80	0.98	-15.42	-12.19	9.94	0.99	8.31	11.57	31.85	0.60	30.86	32.83	0 . 0	0 . 0	0 . 0
0 . 10	F	7	-12.94	1.60	-14.50	-11.38	9.48	1.00	7.83	11.12	30.13	1.43	27.78	32.48	1.98	1.98	1.98
0 . 20	R	7	-11.44	3.17	-14.33	-3.94	9.05	0.91	7.55	10.54	27.72	2.31	24.23	31.21	2.87	4 . 85	4 . 85
0 . 30	R	7	-9.13	3.17	-14.33	-3.94	8.55	0.91	7.06	10.04	24.43	2.74	19.95	28.92	4.04	8 . 89	8 . 89
E	0 . 40	7	-6.17	4.19	-13.02	-0.71	8.38	1.08	6.61	10.16	20.82	3.50	15.09	26.56	4 . 68	13.58	13.58
T	0 . 50	7	-2.07	2.31	-5.86	1.72	8.84	1.29	6.72	10.96	16.58	2.26	12.87	20.28	5 . 91	19.49	19.49
U	0 . 60	7	2.46	4.63	-5.13.	10.04	9.56	1.86	6.51	12.60	11.96	4.37	4.79	19.13	6 . 51	25.99	25.99
R	0 . 70	7	4 . 26	2.92	-0.52	9.05	10.09	1.36	7.86	12.32	9.26	2.86	4 . 58	13.95	3 . 29	29.28	29.28
N	0 . 80	6	4.55	1.39	2.27	6.83	0.69	0.69	9.14	11.41	8.34	1.32	6 . 14	10.48	1 . 02	30.30	30.30
0 . 90	R	6	5.16	1.08	3.40	6.93	10.61	0.41	9.93	11.29	6.93	0.84	5 . 54	8 . 32	1 . 54	31.84	31.84
1 . 00	N	6	5.53	0.86	4.13	6.94	10.90	0.25	10.49	11.31	5.81	0.49	5 . 61	6 . 61	1 . 21	33.05	33.05

LANDMARK - LT TROCHANTER (19)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0 . 0	T	7	2.12	0.88	0.68	3.56	6.83	0.94	5.30	8.37	2.75	0 . 50	1.93	3 . 58	0 . 0	0 . 0	0 . 0
0 . 10	F	7	2.08	0.86	0.67	3.48	6.74	0.77	5.47	8.01	2.87	0 . 51	2.03	3 . 72	0 . 16	0 . 16	0 . 16
F	0 . 20	7	2.00	0.94	0.46	3.54	6.72	0 . 67	5.63	7 . 82	2.85	0 . 49	2.04	3 . 66	0 . 08	0 . 24	0 . 24
O	0 . 30	7	2.10	0.95	0.54	3.66	6.67	0 . 58	5.72	7 . 63	2.85	0 . 47	2.08	3 . 62	0 . 11	0 . 35	0 . 35
R	0 . 40	7	2.09	0.76	0.85	3.33	6.73	0 . 65	5.66	7 . 80	2.85	0 . 46	2.10	3 . 60	0 . 06	0 . 41	0 . 41
W	0 . 50	7	2.11	0.72	0.93	3.29	6.71	0 . 71	5.55	7 . 87	2.87	0 . 48	2.07	3 . 66	0 . 03	0 . 44	0 . 44
A	0 . 60	7	1.94	0.90	0.46	2.42	6.55	0 . 78	5.28	7 . 82	2.89	0 . 41	2 . 22	3 . 55	0 . 23	0 . 68	0 . 68
R	0 . 70	7	1.99	0.80	0.69	2.29	6.63	0 . 72	5.45	7 . 81	2.86	0 . 46	2.11	3 . 61	0 . 10	0 . 77	0 . 77
D	0 . 80	7	1.97	0.73	0.78	3.16	6.64	0 . 78	5.36	7 . 92	3.11	0 . 41	2 . 44	3 . 78	0 . 25	1 . 03	1 . 03
N	0 . 90	7	1.92	0.75	0.63	3.25	6.60	0 . 76	5.35	7 . 99	2.83	0 . 47	2.05	3 . 61	0 . 28	1 . 31	1 . 31
1 . 00	R	7	1.94	0.80	0.63	3.25	6.60	0 . 76	5.35	7 . 86	2.89	0 . 42	2.21	3 . 58	0 . 09	1 . 40	1 . 40
0 . 0	T	7	1.94	0.80	0.63	3.25	6.58	0 . 76	5.35	7 . 86	2.89	0 . 42	2 . 21	3 . 58	0 . 0	0 . 0	0 . 0
0 . 10	F	7	2.08	0.81	0.75	3.42	6.65	0 . 69	5.46	7 . 71	2.87	0 . 50	2.05	3 . 69	0 . 15	0 . 15	0 . 15
F	0 . 20	7	2.08	0.90	0.61	3.56	6.65	0 . 72	5.47	7 . 84	2.84	0 . 49	2 . 04	3 . 64	0 . 08	0 . 22	0 . 22
R	0 . 30	7	2.08	0.83	0.72	3.44	6.71	0 . 87	5.28	8 . 13	2.86	0 . 44	2 . 13	3 . 59	0 . 06	0 . 28	0 . 28
E	0 . 40	7	2.03	0.83	0.67	3.38	6.68	0 . 86	5.28	8 . 08	2 . 87	0 . 45	2 . 14	3 . 60	0 . 06	0 . 34	0 . 34
T	0 . 50	7	2.08	0.80	0.77	3.39	6.66	0 . 75	5.43	7 . 89	2.78	0 . 44	2 . 05	3 . 50	0 . 11	0 . 45	0 . 45
U	0 . 60	7	2.17	0.84	0.79	3.54	6.77	0 . 90	5.29	8 . 25	2.76	0 . 44	2 . 04	3 . 49	0 . 14	0 . 60	0 . 60
R	0 . 70	7	2.15	1.02	0.48	3.88	6.80	1 . 00	5.16	8 . 45	2.82	0 . 44	2 . 10	3 . 53	0 . 06	0 . 66	0 . 66
N	0 . 80	7	2.13	0.89	0.66	3.59	6.71	0 . 86	5.30	8 . 11	2.85	0 . 38	2 . 22	3 . 48	0 . 10	0 . 76	0 . 76
O	0 . 90	7	2.19	0.78	0.92	3.46	6.76	0 . 70	5.61	7 . 91	2.77	0 . 39	2 . 12	3 . 42	0 . 11	0 . 87	0 . 87
1 . 00	R	7	2.12	0.83	0.68	3.56	6.83	0 . 54	5.30	8 . 37	2.75	0 . 50	1 . 93	3 . 58	0 . 11	0 . 98	0 . 98

LANDMARK - LT KNEE TOP (21)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	5	17.38	1.11	15.56	19.19	5.62	0.52	4.11	7.12	9.19	2.32	5.38	13.00	0.98	1.50	2.32	0.0	0.0
0.10	5	17.50	1.20	15.53	19.48	5.56	0.91	4.06	7.06	9.20	2.32	5.39	13.01	0.98	1.44	2.32	0.14	0.14
F 0.20	5	17.59	1.26	15.52	19.66	5.75	1.07	3.99	7.06	9.19	2.37	5.30	13.08	0.98	1.21	2.31	0.34	0.34
O 0.30	5	17.58	1.17	15.66	19.50	5.71	0.98	4.10	7.32	9.22	2.37	5.34	13.10	0.98	1.19	2.34	0.49	0.49
R 0.40	5	17.50	1.07	15.74	19.27	5.72	1.08	3.96	7.49	9.19	2.36	5.31	13.07	0.98	1.08	2.36	0.48	0.48
W 0.50	5	17.48	1.12	15.64	19.32	5.67	1.10	3.86	7.48	9.18	2.38	5.29	13.08	0.98	1.06	2.36	0.53	0.53
A 0.60	5	17.43	1.28	15.33	19.53	5.55	0.98	3.95	7.15	9.27	2.34	5.43	13.12	0.98	1.16	2.34	0.69	0.69
R 0.70	5	17.48	1.09	15.69	19.28	5.65	1.09	3.86	7.45	9.22	2.46	5.18	13.26	0.98	1.13	2.46	0.82	0.82
D 0.80	5	17.41	1.08	15.63	19.19	5.75	1.06	4.01	7.49	9.14	2.33	5.32	12.97	0.98	1.15	2.37	0.97	0.97
O 0.90	5	17.40	1.04	15.70	19.10	5.71	1.13	3.86	7.56	9.18	2.38	5.27	13.08	0.98	1.05	2.38	1.02	1.02
1.00	5	17.46	1.16	15.55	19.37	5.71	1.20	3.86	7.49	9.13	2.37	5.25	13.02	0.98	1.10	2.37	0.91	0.91
0.0	5	17.46	1.16	15.55	19.37	5.71	1.20	3.75	7.67	9.13	2.37	5.25	13.02	0.98	0.0	0.0	0.0	0.0
0.10	5	17.50	1.23	15.56	19.44	5.59	1.04	3.88	7.31	9.22	2.44	5.23	13.22	0.98	1.15	2.44	0.15	0.15
R 0.30	5	17.47	1.23	15.46	19.49	5.65	1.15	3.76	7.54	9.20	2.38	5.30	13.11	0.98	1.07	2.38	0.22	0.22
E 0.40	5	17.49	1.23	15.46	19.51	5.63	1.04	3.93	7.34	9.19	2.38	5.28	13.10	0.98	1.03	2.38	0.25	0.25
T 0.50	5	17.48	1.28	15.38	19.59	5.63	0.91	4.13	7.12	9.20	2.39	5.29	13.11	0.98	1.01	2.39	0.26	0.26
T 0.60	5	17.63	1.21	15.48	19.77	5.71	0.97	4.12	7.29	9.20	2.33	5.39	13.01	0.98	1.16	2.42	0.42	0.42
U 0.60	5	17.58	1.25	15.53	19.64	5.71	0.92	4.20	7.22	9.23	2.35	5.36	13.09	0.98	1.05	2.47	0.47	0.47
R 0.70	5	17.44	1.36	15.20	19.67	5.65	0.80	4.34	6.97	9.18	2.37	5.29	13.07	0.98	1.16	2.43	0.63	0.63
N 0.80	5	17.44	1.27	15.36	19.53	5.65	0.95	4.08	7.21	9.14	2.29	5.39	12.90	0.98	1.04	2.47	0.67	0.67
O 0.90	5	17.48	1.19	15.53	19.43	5.73	1.12	3.88	7.57	9.16	2.30	5.39	12.93	0.98	1.09	2.47	0.76	0.76
1.00	5	17.38	1.11	15.56	19.19	5.62	0.92	4.11	7.12	9.19	2.32	5.38	13.00	0.98	1.15	2.42	0.91	0.91

LANDMARK - LT SHOULDER CENTER (23)

TIME	SAMPLE SIZE,N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	7	-14.90	1.04	-16.61	-13.20	8.27	0.31	7.75	8.78	10.90	0.42	10.22	11.59	0.0	0.0	0.0	0.0	
0.10	7	-14.90	0.54	-15.78	-14.01	7.94	0.64	6.90	8.99	10.70	0.37	10.10	11.31	0.38	0.38	11.31	0.38	0.38
F 0.20	7	-15.25	0.50	-16.08	-14.42	8.10	0.55	7.20	9.00	10.67	0.30	10.17	11.16	0.39	0.39	11.16	0.39	0.39
O 0.30	7	-15.32	0.45	-16.06	-14.58	8.11	0.81	6.78	9.44	10.90	0.32	10.38	11.43	0.25	0.25	11.43	0.25	0.25
R 0.40	7	-15.28	0.23	-15.66	-14.90	8.32	0.68	7.20	9.43	11.37	0.44	10.65	12.09	0.51	0.51	12.09	0.51	0.51
W 0.50	7	-15.20	0.51	-16.04	-14.37	8.13	0.63	7.10	9.16	11.98	0.69	10.84	13.11	0.64	0.64	13.11	0.64	0.64
A 0.60	7	-15.56	0.70	-16.70	-14.42	8.08	0.74	6.87	8.30	12.35	0.80	11.04	13.66	0.52	0.52	13.66	0.52	0.52
R 0.70	7	-15.77	0.56	-16.70	-14.85	8.11	0.73	6.91	9.31	12.64	0.83	11.28	14.01	0.36	0.36	14.01	0.36	0.36
D 0.80	7	-15.84	0.57	-16.77	-14.91	8.14	0.85	6.74	9.53	12.89	0.90	11.41	14.37	0.26	0.26	14.37	0.26	0.26
O 0.90	7	-15.70	0.66	-16.79	-14.62	8.33	0.85	6.94	9.73	13.13	1.03	14.43	14.82	0.34	0.34	14.82	0.34	0.34
1.00	7	-15.74	0.74	-16.95	-14.52	8.36	0.79	7.07	9.66	13.11	0.98	11.50	14.72	0.04	0.04	14.72	0.04	0.04
0.0	7	-15.74	0.74	-16.95	-14.52	8.36	0.79	7.07	9.66	13.11	0.98	11.50	14.72	0.0	0.0	14.72	0.0	0.0
0.10	7	-15.64	0.79	-16.94	-14.34	8.16	0.71	7.00	9.32	12.19	0.85	11.39	14.18	0.40	0.40	14.18	0.40	0.40
R 0.20	7	-15.54	0.73	-16.74	-14.33	8.16	0.82	6.82	9.51	12.27	0.70	11.12	13.42	0.53	0.53	13.42	0.53	0.53
T 0.30	7	-15.67	0.77	-16.94	-14.40	8.21	0.80	6.89	9.52	11.76	0.54	10.86	12.65	0.54	0.54	12.65	0.54	0.54
E 0.40	7	-15.86	0.74	-17.08	-14.64	8.31	0.66	7.23	9.39	11.28	0.49	10.49	12.08	0.52	0.52	12.08	0.52	0.52
T 0.50	7	-15.59	0.69	-16.71	-14.46	8.33	0.63	7.30	9.36	11.04	0.37	10.44	11.65	0.36	0.36	11.65	0.36	0.36
U 0.60	7	-15.39	0.77	-16.65	-14.13	8.31	0.65	7.25	9.37	11.04	0.37	10.40	11.60	0.21	0.21	11.60	0.21	0.21
R 0.70	7	-15.26	0.91	-16.75	-13.77	8.27	0.65	7.21	9.33	10.99	0.32	10.46	11.52	0.14	0.14	11.52	0.14	0.14
N 0.80	7	-15.06	0.97	-16.64	-13.47	8.24	0.59	7.27	9.21	10.97	0.34	10.42	11.53	0.20	0.20	11.53	0.20	0.20
O 0.90	7	-14.90	1.00	-16.55	-13.25	8.29	0.43	7.60	8.99	10.94	0.34	10.39	11.49	0.17	0.17	11.49	0.17	0.17
1.00	7	-14.90	1.04	-16.61	-13.20	8.27	0.31	7.75	8.78	10.93	0.42	10.22	11.59	0.05	0.05	11.59	0.05	0.05

LANDMARK - LT ELBOW CENTER (25)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-7.56	0.98	-9.17	-5.50	12.71	0.36	12.12	13.31	5.04	1.63	2.37	7.71	0.0	0.0	0.0	0.0
0.10	F	-7.14	0.34	-7.70	-6.58	12.07	1.32	9.90	14.24	4.70	1.61	2.06	7.34	0.84	0.84	0.84	0.84
0.20	R	-7.14	0.49	-7.94	-6.35	12.51	1.28	10.42	14.60	5.85	1.91	2.72	8.98	1.23	1.23	1.23	1.23
0.30	D	-7.08	0.67	-8.18	-5.99	13.28	0.87	11.86	14.57	8.57	2.22	4.93	12.21	2.82	2.82	2.82	2.82
0.40	R	-7.50	1.16	-9.41	-5.60	13.57	0.64	12.52	14.61	11.85	2.50	7.75	15.95	3.32	3.32	3.32	3.32
0.50	W	-8.43	1.64	-11.13	-5.73	13.30	0.60	12.32	14.28	14.83	2.58	10.60	19.07	3.14	3.14	3.14	3.14
A	O	-9.81	1.87	-12.88	-6.74	12.99	0.72	11.81	14.18	2.14	13.59	20.42	2.51	2.51	2.51	2.51	2.51
R	O	-10.81	2.04	-14.16	-7.47	12.91	0.79	11.61	14.21	1.62	15.51	20.82	1.61	1.61	1.61	1.61	1.61
D	O	-11.58	2.02	-14.89	-8.27	12.87	0.69	11.74	13.99	18.86	1.14	16.98	20.73	1.04	1.04	1.04	1.04
N	O	-12.37	1.89	-15.46	-9.28	12.71	0.40	12.06	13.37	19.37	0.76	18.13	20.62	0.95	0.95	0.95	0.95
O	W	-12.19	1.86	-15.25	-9.14	13.04	0.99	11.42	14.66	19.12	1.14	17.25	21.00	0.45	0.45	0.45	0.45
1.00																	

LANDMARK - LT WRIST CENTER (27)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-12.19	1.86	-15.25	-9.14	13.04	0.99	11.42	14.66	19.12	1.14	17.25	21.00	0.0	0.0	0.0	0.0
0.10	F	-11.00	2.29	-13.11	-8.04	13.75	0.75	12.53	14.97	15.60	2.18	12.03	19.17	1.87	1.87	1.87	1.87
0.20	R	-9.54	0.91	-11.04	-8.04	12.23	1.03	14.03	0.52	13.18	1.14	2.45	9.13	2.60	4.47	4.47	4.47
0.30	D	-8.72	0.91	-10.22	-7.23	14.17	1.00	-6.54	15.22	13.37	0.52	10.62	14.04	2.61	7.08	7.08	7.08
0.40	E	-8.17	1.00	-9.81	-9.81	15.37	0.52	13.98	0.58	13.03	1.93	3.39	1.58	2.59	9.67	9.67	9.67
T	O	-7.77	0.91	-9.26	-6.28	13.28	0.52	13.98	0.58	13.03	1.93	3.39	1.58	2.28	1.94	1.94	1.94
U	O	-7.57	0.91	-9.07	-6.07	13.63	0.68	12.52	14.74	6.72	1.50	4.26	9.18	1.72	1.66	1.66	1.66
R	O	-7.63	1.01	-9.28	-5.98	13.38	0.60	12.40	14.35	5.87	1.66	3.14	8.60	0.89	1.55	1.55	1.55
N	O	-7.59	0.98	-9.20	-5.98	13.15	0.42	12.45	13.85	5.80	1.79	2.46	8.33	0.53	1.50	1.50	1.50
O	W	-7.61	0.97	-9.21	-6.01	12.92	0.33	12.38	13.45	5.20	1.73	2.36	8.04	0.30	1.58	1.58	1.58
1.00																	

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +7.0, -10.0, +5.0 TO PANEL CONTROLLER AT +10.0, +10.0, +15.0 AND RETURNS. LEFT HAND REMAINS AT THROTTLE CONTROLLER AT +7.0, +10.0, +5.0.

MOTION NUMBER = 12140
BACK ANGLE = 65

SUB-MOVEMENT

SUB-MOVEMENT	TIME DATA			RANGE
	MEAN	STD DEV		
RGHT FWD	0.74	0.08	0.60 TO 0.80	SECS.
RGHT REV	0.86	0.11	0.80 TO 1.10	SECS.

LANDMARK - NASION

(1)

TIME	SAMPLE	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			DISTANCE MOVED				
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-16.54	1.12	-18.37	-14.71	-0.72	1.39	-3.01	1.56	21.31	0.72	20.13	22.50	0.0	0.0
0.10	F	-16.83	1.06	-18.57	-15.09	0.72	1.12	-1.12	2.55	21.31	0.65	20.24	22.37	1.47	1.47
0.20	R	-16.75	1.29	-18.86	-14.63	1.50	1.31	-0.45	2.25	21.25	0.60	20.26	22.23	0.79	2.26
0.30	D	-16.42	1.54	-18.95	-13.89	2.10	1.45	-0.28	4.49	21.26	0.64	20.21	22.31	0.68	2.94
0.40	R	-16.21	1.97	-19.45	-12.98	2.65	1.82	-0.34	5.64	21.36	0.78	20.08	22.63	0.59	3.44
0.50	W	-16.54	1.59	-19.15	-13.94	2.74	1.48	-0.31	5.17	21.42	0.77	20.16	22.69	0.35	3.88
A	A	-16.43	1.58	-19.01	-13.84	2.97	1.40	0.67	5.27	21.48	0.75	20.25	22.71	0.26	4.15
R	O	-16.29	1.54	-18.82	-13.76	3.26	1.52	0.77	5.75	21.55	0.79	20.26	22.85	0.33	4.47
D	B	-16.15	1.57	-18.71	-13.58	3.63	1.64	0.95	6.32	21.68	0.92	20.17	23.19	0.42	4.90
O	N	-16.50	1.33	-18.68	-14.31	3.60	1.68	0.84	6.37	21.87	1.09	20.07	23.66	0.40	5.29
0.90	N	-16.60	1.51	-19.08	-14.13	3.68	1.89	0.57	6.78	21.97	1.07	20.07	23.72	0.16	5.46
1.00															

LANDMARK - CERVICALE

(2)

TIME	SAMPLE	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE			DISTANCE MOVED				
		T	SIZE,N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-16.89	1.41	-19.21	-14.57	3.40	1.69	0.63	6.17	21.89	1.11	20.06	23.71	0.41	0.41
0.10	F	-16.43	1.63	-19.10	-13.76	3.02	1.47	0.60	5.43	21.56	1.09	19.78	23.35	0.68	1.09
0.20	R	-16.26	1.40	-18.55	-13.96	2.29	1.37	0.04	4.55	21.42	0.92	19.77	23.06	0.76	1.85
0.30	E	-16.16	1.30	-18.30	-14.02	1.58	1.22	-0.63	5.58	21.28	0.92	19.77	22.79	0.73	2.58
0.40	E	-16.36	1.14	-18.23	-14.48	1.11	1.45	-1.27	3.48	21.24	0.76	19.99	22.49	0.51	3.09
0.50	T	-16.49	1.29	-18.61	-14.37	0.65	1.21	-1.33	2.64	21.24	0.81	19.92	22.57	0.47	3.57
0.60	U	-16.55	1.22	-18.54	-14.55	0.14	1.10	-1.66	1.94	21.33	0.80	20.01	22.65	0.52	4.09
0.70	R	-16.51	1.19	-18.46	-14.57	0.35	1.10	-2.16	1.47	21.32	0.82	19.97	22.66	0.49	4.58
0.80	N	-16.64	1.29	-18.76	-14.52	0.58	1.19	-2.53	1.37	21.23	0.82	19.89	22.57	0.28	4.16
0.90	O	-16.54	1.12	-18.37	-14.71	-0.72	1.39	-3.01	1.56	21.31	0.72	20.13	22.50	0.19	5.05
1.00															

LANDMARK - SUPRASENTRALE (3)

TIME	SAMPLE	CO-ORDINATE					CO-CROINATE					CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	SIZE, N	-13.80	0.61	-14.81	-12.80	-0.31	0.75	-1.53	0.91	14.69	0.51	13.86	15.53	0.0	0.0	0.0	0.0
0.0	7	-13.92	0.38	-14.55	-13.30	-0.15	0.69	-1.29	0.98	14.58	0.54	13.70	15.47	0.23	0.23	0.23	0.23
F	0.20	-13.81	0.40	-14.47	-13.15	0.02	0.68	-1.10	1.13	14.58	0.49	13.78	15.39	0.21	0.21	0.43	0.43
R	0.30	-13.68	0.45	-14.42	-12.93	0.15	0.81	-1.18	1.48	14.62	0.51	13.78	15.47	0.19	0.19	0.62	0.62
E	0.40	-13.66	0.35	-14.23	-13.08	0.40	1.00	-1.24	2.04	14.69	0.63	13.66	15.73	0.26	0.26	0.89	0.89
W	0.50	-13.57	0.37	-14.19	-12.96	0.96	0.97	-1.63	1.54	14.92	0.54	14.04	15.81	0.61	0.61	1.50	1.50
A	0.60	-13.57	0.69	-14.73	-12.47	1.41	1.22	-0.59	3.41	15.14	0.62	14.10	16.12	0.49	0.49	1.99	1.99
R	0.70	-13.62	0.83	-14.99	-12.26	1.61	1.31	-0.55	3.76	15.23	0.87	13.79	16.66	0.23	0.23	2.22	2.22
D	0.80	-13.54	0.85	-14.94	-12.15	1.89	1.50	-0.58	4.36	15.47	0.98	13.86	17.38	0.38	0.38	2.60	2.60
O	0.90	-13.41	0.85	-14.81	-12.01	2.12	1.71	-0.68	4.92	15.58	1.00	14.04	17.33	0.34	0.34	2.94	2.94
1.00	7	-13.40	0.83	-14.77	-12.04	2.07	1.87	-0.99	5.14	15.83	1.10	14.02	17.64	0.15	0.15	3.09	3.09
0.0	7	-13.40	0.83	-14.77	-12.04	2.07	1.87	-0.99	5.14	15.83	1.10	14.02	17.64	0.0	0.0	0.0	0.0
0.10	7	-13.48	0.68	-14.59	-12.38	2.07	0.99	0.45	3.70	15.47	0.78	14.19	16.75	0.37	0.37	0.58	0.58
0.20	7	-13.26	0.59	-14.22	-12.10	1.69	1.03	0.00	3.37	15.11	0.75	13.87	16.34	0.34	0.34	0.95	0.95
R	0.30	-13.26	0.48	-14.04	-12.48	1.43	0.75	0.19	2.66	14.89	0.73	13.70	16.08	1.28	1.28	1.28	1.28
E	0.40	-13.36	0.51	-14.20	-12.20	1.13	0.48	0.34	1.91	14.87	0.65	13.81	15.93	0.32	0.32	1.60	1.60
T	0.50	-13.38	0.69	-14.51	-12.24	0.61	0.84	-0.76	1.98	14.78	0.58	13.83	15.74	0.53	0.53	2.12	2.12
U	0.60	-13.72	0.48	-14.93	-12.93	0.36	0.42	-0.33	1.05	14.58	0.58	13.72	15.64	0.44	0.44	2.56	2.56
R	0.70	-13.72	0.55	-14.63	-12.82	0.10	0.56	-0.82	1.02	14.73	0.57	13.80	15.66	0.27	0.27	2.83	2.83
N	0.80	-13.70	0.56	-14.61	-12.78	-0.14	0.60	-1.12	0.85	14.69	0.52	13.84	15.54	0.24	0.24	3.07	3.07
O	0.90	-13.80	0.54	-14.69	-12.91	-0.19	0.44	-0.92	0.53	14.58	0.49	13.77	15.39	0.16	0.16	3.23	3.23
1.00	7	-13.80	0.61	-14.81	-12.80	-0.31	0.75	-1.53	0.91	14.69	0.51	13.86	15.53	0.16	0.16	3.39	3.39

LANDMARK - RT ACRION

TIME	SAMPLE	CO-ORDINATE					CO-CROINATE					CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	SIZE, N	-15.16	2.04	-18.51	-11.81	-7.12	2.75	-11.63	-2.61	12.44	0.47	11.63	13.18	0.0	0.0	0.0	0.0
0.0	6	-16.35	0.80	-17.67	-15.04	-7.46	1.21	-9.44	-5.48	12.23	0.60	11.24	13.22	1.25	1.25	1.25	1.25
F	0.20	-16.91	0.51	-17.74	-17.07	-7.67	0.29	-8.15	-7.19	12.27	0.68	11.15	13.39	0.59	1.84	1.84	1.84
R	0.30	-16.68	0.71	-17.84	-15.52	-7.67	0.30	-8.17	-7.17	12.62	0.75	11.39	13.86	0.42	2.26	2.26	2.26
O	0.40	-16.11	0.42	-16.81	-15.42	-7.46	0.43	-8.17	-6.76	13.18	0.88	11.74	14.63	0.83	3.09	3.09	3.09
R	0.50	-15.45	0.57	-16.39	-15.51	-7.12	0.73	-8.31	-5.93	14.00	1.06	12.27	15.73	1.10	4.19	4.19	4.19
A	0.60	-14.60	0.78	-15.89	-13.32	-6.86	0.81	-8.18	-5.54	14.87	1.08	12.93	16.80	1.24	5.43	5.43	5.43
R	0.70	-13.36	0.73	-15.17	-12.76	-6.35	1.06	-8.09	-4.61	15.55	1.17	13.74	17.57	1.13	6.57	6.57	6.57
D	0.80	-13.34	0.61	-14.34	-12.33	-5.63	1.18	-7.56	-3.70	16.31	1.11	14.50	18.13	1.16	7.73	7.73	7.73
O	0.90	-12.87	0.45	-13.61	-12.13	-5.06	1.18	-7.00	-3.13	16.74	1.07	14.99	18.49	0.85	8.58	8.58	8.58
1.00	6	-12.75	0.26	-13.17	-12.33	-5.05	1.02	-6.72	-3.38	16.85	1.13	15.00	18.71	0.16	8.74	8.74	8.74
0.0	6	-12.75	0.26	-13.17	-12.33	-5.05	1.02	-6.72	-3.38	16.85	1.13	15.00	18.71	0.0	0.0	0.0	0.0
O	1.0	-13.77	0.55	-14.67	-12.87	-5.63	0.55	-6.53	-4.72	15.83	0.97	14.24	17.42	1.55	1.55	1.55	1.55
O	2.0	-14.52	0.63	-15.56	-13.49	-6.09	0.40	-6.75	-5.43	14.99	0.91	13.50	16.49	1.22	2.77	2.77	2.77
R	0.30	-15.16	0.61	-16.16	-14.16	-6.57	0.44	-7.30	-5.85	14.23	0.84	12.84	15.62	1.10	3.88	3.88	3.88
E	0.40	-15.78	0.67	-16.89	-14.68	-6.89	0.36	-7.48	-6.31	13.57	0.72	12.39	14.74	0.97	4.84	4.84	4.84
T	0.50	-16.22	0.83	-17.58	-14.85	-7.28	0.45	-8.02	-6.54	13.10	0.43	12.41	13.80	0.74	5.59	5.59	5.59
U	0.60	-16.40	0.79	-17.69	-15.10	-7.56	0.33	-8.11	-7.01	12.80	0.42	12.11	13.49	0.45	6.04	6.04	6.04
R	0.70	-16.42	0.90	-17.90	-14.94	-7.79	0.37	-8.39	-7.18	12.67	0.45	11.93	13.41	0.26	6.30	6.30	6.30
N	0.80	-16.35	0.91	-17.85	-14.86	-7.94	0.44	-8.67	-7.22	12.54	0.46	11.79	13.30	0.21	6.51	6.51	6.51
O	0.90	-16.02	0.81	-17.36	-14.69	-7.72	0.99	-9.35	-6.10	12.44	0.46	11.66	13.17	0.42	6.93	6.93	6.93
1.00	6	-15.16	2.04	-18.51	-11.81	-7.12	2.75	-11.63	-2.61	12.40	0.47	11.63	13.18	1.05	7.98	7.98	7.98

LANDMARK - RT GRIP CENTER (16)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	6.40	0.94	4.86	7.93	-11.19	0.56	-12.11	-10.26	3.63	1.04	1.93	5.33	0.0	0.0	0.0	0.0	
0.10	T	6.04	0.87	4.61	7.46	-10.93	0.89	-12.40	-9.46	6.00	0.54	5.12	6.89	2.41	2.41	2.41	2.41	
F	0.20	5.78	0.83	4.42	7.15	-9.23	1.30	-11.36	-7.10	9.14	1.06	7.40	10.89	3.58	3.58	3.58	3.58	
R	0.30	5.78	0.93	4.25	7.31	-5.88	1.71	-8.68	-3.07	12.70	1.20	10.73	14.67	4.89	4.89	4.89	4.89	
R	0.40	5.81	1.11	3.99	7.64	-1.27	2.64	-5.60	-3.06	15.78	1.34	13.57	17.98	5.54	5.54	5.54	5.54	
W	0.50	5.87	0.94	4.33	7.42	2.00	1.65	-0.70	4.71	17.18	1.03	15.49	18.88	3.56	3.56	3.56	3.56	
R	0.60	6.43	0.97	4.84	8.01	5.23	1.44	2.86	7.59	17.91	0.72	16.74	23.34	3.35	3.35	3.35	3.35	
R	0.70	7.00	0.79	5.71	8.30	7.57	1.07	5.81	9.33	17.82	0.62	16.81	18.83	2.41	2.41	2.41	2.41	
D	0.80	7.52	0.53	6.65	8.39	9.10	0.73	7.90	10.29	17.44	0.49	16.64	18.25	1.66	1.66	1.66	1.66	
N	0.90	8.16	0.44	7.44	8.88	9.64	0.59	8.67	10.61	16.99	0.41	16.23	17.58	1.00	1.00	1.00	1.00	
N	0.90	8.34	0.79	7.04	9.64	9.59	0.94	8.05	11.13	16.57	0.66	15.48	17.66	0.38	0.38	0.38	0.38	
O	0.0	5	8.34	0.79	7.04	9.64	9.59	0.94	8.05	11.13	16.57	0.66	15.48	17.66	0.0	0.0	0.0	0.0
O	0.10	5	7.27	0.84	5.90	8.64	6.96	2.67	2.58	11.35	16.39	0.97	15.30	18.47	2.86	2.86	2.86	2.86
O	0.20	7	6.81	0.80	5.49	8.13	4.02	3.45	1.64	16.44	1.33	14.26	18.62	3.01	3.01	3.01	3.01	
R	0.30	7	6.31	1.28	4.21	8.41	-0.54	6.04	-10.44	9.36	14.75	3.39	9.20	20.30	4.89	4.89	4.89	4.89
E	0.40	7	6.10	1.40	3.82	8.39	-3.72	4.14	-10.51	3.07	13.47	2.52	9.34	17.60	3.43	3.43	3.43	3.43
T	0.50	7	5.79	1.30	3.66	7.92	-7.29	3.52	-13.06	-1.52	11.30	2.65	6.96	15.64	4.20	4.20	4.20	4.20
U	0.60	7	5.95	1.09	4.16	7.75	-9.51	2.62	-13.80	-5.21	9.09	2.42	5.11	13.06	3.13	3.13	3.13	3.13
R	0.70	7	5.82	1.04	4.11	7.53	-10.79	1.65	-13.48	-8.09	7.25	2.07	3.86	23.76	2.24	2.24	2.24	2.24
N	0.80	7	5.86	1.15	3.97	7.74	-11.38	0.90	-12.85	-9.91	5.59	1.49	3.15	8.03	1.76	1.76	1.76	1.76
N	0.90	7	6.16	1.07	4.41	7.92	-11.31	0.60	-12.29	-10.33	4.26	1.01	2.60	5.91	1.37	1.37	1.37	1.37
W	0.40	7	6.40	0.94	4.86	7.93	-11.19	0.56	-12.11	-10.26	3.63	1.04	1.93	5.33	0.68	0.68	0.68	0.68

LANDMARK - RT TROCHANTER (18)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	1.82	0.81	0.49	3.15	-7.18	1.14	-9.06	-5.30	2.57	0.59	1.61	3.54	0.0	0.0	0.0	0.0	
0.10	T	1.78	0.67	0.68	2.88	-7.07	0.72	-8.24	-5.89	2.76	0.52	1.91	3.60	0.22	0.22	0.22	0.22	
F	0.20	1.98	0.47	1.22	2.75	-6.99	0.71	-8.15	-5.82	2.97	0.38	2.35	3.58	0.30	0.30	0.30	0.30	
D	0.30	2.12	0.51	1.28	2.95	-6.96	0.76	-8.22	-5.71	3.05	0.32	2.53	3.57	0.16	0.16	0.16	0.16	
E	0.40	2.04	0.59	1.07	3.00	-6.95	0.78	-8.24	-5.67	2.97	0.33	2.43	3.51	0.12	0.12	0.12	0.12	
W	0.50	2.10	0.71	0.94	3.26	-6.97	1.08	-8.75	-5.20	2.95	0.35	2.38	3.53	0.06	0.06	0.06	0.06	
A	0.60	2.24	0.77	0.98	3.51	-6.92	1.01	-8.58	-5.26	2.92	0.19	2.62	3.23	0.16	0.16	0.16	0.16	
R	0.70	2.09	0.54	2.97	6.96	0.85	-8.35	-5.58	2.98	0.17	2.70	3.26	0.17	0.17	0.17	0.17		
D	0.80	2.04	0.62	1.02	3.02	-6.86	0.73	-8.06	-5.66	3.10	0.19	2.78	3.42	0.17	0.17	0.17	0.17	
N	0.90	2.11	0.57	1.17	3.04	-6.78	0.63	-7.81	-5.76	3.07	0.16	2.81	3.32	0.11	0.11	0.11	0.11	
N	0.90	6	1.99	0.40	1.34	2.65	-6.95	0.67	-8.04	-5.86	2.98	0.27	2.53	3.43	0.22	0.22	0.22	0.22
O	0.0	6	1.99	0.40	1.34	2.65	-6.95	0.67	-8.04	-5.86	2.98	0.27	2.53	3.43	0.0	0.0	0.0	0.0
O	0.10	6	2.11	0.91	0.62	3.60	-6.70	0.91	-8.19	-5.21	3.08	0.37	2.48	3.68	0.29	0.29	0.29	0.29
R	0.20	7	1.86	0.64	0.81	2.91	-6.93	0.82	-8.27	-5.58	3.08	0.39	2.45	3.72	0.34	0.34	0.34	0.34
R	0.30	7	2.10	0.73	0.89	3.30	-6.88	1.07	-8.64	-5.11	3.03	0.38	2.41	3.66	0.25	0.25	0.25	0.25
E	0.40	7	2.29	0.82	0.95	3.63	-6.83	1.21	-8.82	-4.84	2.99	0.38	2.37	3.62	0.20	0.20	0.20	0.20
T	0.50	7	2.05	0.86	0.63	3.47	-7.11	0.95	-8.67	-5.55	2.99	0.49	2.16	3.78	0.37	0.37	0.37	0.37
U	0.60	7	2.11	0.86	0.70	3.52	-7.24	0.78	-8.52	-5.97	2.83	0.46	2.06	3.59	0.21	0.21	0.21	0.21
R	0.70	7	2.14	1.03	0.45	3.83	-7.31	0.97	-8.91	-5.71	2.71	0.49	1.90	3.52	0.14	0.14	0.14	0.14
N	0.80	7	2.02	0.94	0.48	3.55	-7.15	1.02	-8.82	-5.48	2.74	0.66	1.65	3.83	0.21	0.21	0.21	0.21
N	0.90	6	1.78	0.75	0.55	3.01	-7.10	0.95	-8.65	-5.54	2.69	0.77	1.35	3.86	0.28	0.28	0.28	0.28
1.00	6	1.82	0.81	0.49	3.49	-7.18	1.14	-9.06	-5.30	2.57	0.59	1.61	3.54	0.09	0.09	0.09	0.09	

LANDMARK - RT KNEE TOP (20)

TIME	SAMPLE T	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	7	17.85	1.13	16.00	19.71	-4.84	1.56	-7.41	-2.28	9.87	2.39	5.95	13.79	0.0	0.0	0.0	0.0	
0.10	7	17.75	1.02	16.05	19.40	-5.14	1.34	-7.34	-2.93	9.77	2.28	6.03	13.52	0.34	0.34	0.34	0.34	
F	0.20	7	17.75	0.91	16.26	19.24	-5.16	1.06	-6.90	-3.42	9.78	2.26	6.08	13.48	0.03	0.37	0.37	0.37
O	0.30	7	17.80	0.92	16.28	19.31	-5.14	0.98	-6.75	-3.53	9.84	2.31	6.05	13.64	0.08	0.45	0.45	0.45
E	0.40	7	17.78	1.03	16.08	19.47	-5.12	1.08	-6.88	-3.35	9.87	2.36	6.00	13.73	0.04	0.49	0.49	0.49
W	0.50	7	17.73	1.07	15.98	19.48	-4.99	1.05	-6.72	-3.26	9.91	2.35	6.05	13.77	0.14	0.63	0.63	0.63
A	0.60	7	17.75	1.01	16.09	19.41	-5.04	0.96	-6.62	-3.47	9.93	2.39	6.01	13.86	0.06	0.69	0.69	0.69
R	0.70	7	17.82	0.94	16.29	19.35	-5.02	1.01	-6.67	-3.37	9.70	2.40	5.97	13.84	0.08	0.77	0.77	0.77
D	0.80	7	17.88	0.95	16.32	19.43	-4.97	1.12	-6.81	-3.14	9.87	2.40	5.93	13.81	0.08	0.85	0.85	0.85
O	0.90	7	17.84	0.97	16.24	19.44	-5.05	1.23	-7.07	-3.03	9.83	2.40	5.90	13.76	0.09	0.94	0.94	0.94
U	1.00	7	17.70	0.83	16.34	19.05	-5.10	1.34	-7.29	-2.91	9.80	2.39	5.88	13.71	0.15	1.10	1.10	1.10
0.0	7	17.70	0.83	16.34	19.05	-5.10	1.34	-7.29	-2.91	9.80	2.39	5.88	13.71	0.0	0.0	0.0	0.0	
0.10	7	17.60	0.90	16.12	19.07	-5.11	1.35	-7.33	-2.89	9.76	2.38	5.85	13.66	0.11	0.11	0.11	0.11	
O	0.20	7	17.74	0.93	16.22	19.26	-4.99	1.36	-7.22	-2.76	9.79	2.37	5.91	13.67	0.19	0.30	0.30	0.30
R	0.30	7	17.91	0.76	16.66	19.16	-4.88	1.31	-7.03	-2.73	9.77	2.36	5.93	13.66	0.20	0.50	0.50	0.50
E	0.40	7	17.92	0.64	16.87	18.97	-4.83	1.37	-7.07	-2.58	9.81	2.37	5.92	13.70	0.06	0.56	0.56	0.56
T	0.50	7	17.91	0.95	16.35	19.48	-4.92	1.58	-7.51	-2.33	9.79	2.42	5.82	13.75	0.09	0.65	0.65	0.65
U	0.60	7	17.83	0.88	16.38	19.28	-4.89	1.50	-7.34	-2.43	9.85	2.37	5.96	13.73	0.11	0.76	0.76	0.76
R	0.70	7	17.82	0.92	16.30	19.33	-4.87	1.53	-7.39	-2.36	9.81	2.39	5.99	13.83	0.07	0.83	0.83	0.83
N	0.80	7	17.90	0.87	16.46	19.33	-4.93	1.55	-7.47	-2.39	9.85	2.37	5.97	13.74	0.11	0.94	0.94	0.94
O	0.90	7	17.83	0.91	16.34	19.32	-5.00	1.50	-7.47	-2.54	9.76	2.33	5.94	13.57	0.14	1.08	1.08	1.08
U	1.00	7	17.85	1.13	16.00	19.71	-4.84	1.56	-7.41	-2.28	9.87	2.39	5.95	13.79	0.20	1.26	1.26	1.26

LANDMARK - RT SHOULDER CENTER (22)

TIME	SAMPLE T	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	7	-13.88	0.64	-14.93	-12.82	-7.87	0.62	-8.89	-6.86	11.57	0.81	10.25	12.90	0.0	0.0	0.0	0.0	
F	0.10	7	-14.45	0.51	-15.28	-13.62	-7.80	0.59	-8.77	-6.82	11.42	0.62	10.41	12.43	0.60	0.60	0.60	0.60
O	0.20	7	-14.40	0.50	-15.22	-13.59	-7.74	0.68	-8.87	-6.62	11.56	0.62	10.57	12.60	0.18	0.78	0.78	0.78
P	0.30	7	-14.07	0.50	-14.88	-13.25	-7.69	0.82	-9.04	-6.34	12.95	0.70	10.89	13.20	0.58	1.35	1.35	1.35
R	0.40	7	-13.55	0.47	-14.32	-12.78	-7.44	1.00	-9.09	-5.80	12.95	0.86	11.31	14.13	0.89	2.24	2.24	2.24
T	0.50	7	-12.59	0.92	-14.11	-11.08	-7.07	1.05	-8.79	-5.35	13.48	0.87	12.06	14.90	1.28	3.51	3.51	3.51
A	0.60	7	-11.88	0.71	-13.05	-10.72	-6.26	1.18	-8.20	-4.32	14.28	0.98	12.68	15.88	1.34	4.85	4.85	4.85
R	0.70	7	-11.06	0.56	-11.98	-10.14	-5.61	1.22	-7.61	-3.62	14.93	1.03	13.23	16.63	1.23	6.09	6.09	6.09
D	0.80	7	-10.31	0.54	-11.20	-5.41	-5.01	1.22	-7.01	-3.00	15.53	0.95	13.97	17.09	1.14	7.22	7.22	7.22
O	0.90	7	-9.93	0.69	-11.07	-4.80	-4.53	1.23	-6.55	-2.52	15.24	0.87	14.48	17.34	0.71	7.94	7.94	7.94
U	1.00	7	-10.05	0.82	-11.39	-8.70	-4.44	1.11	-6.26	-2.63	15.96	0.81	14.62	17.29	0.15	8.09	8.09	8.09
0.0	7	-10.05	0.82	-11.39	-8.70	-4.44	1.11	-6.26	-2.63	15.96	0.81	14.62	17.29	0.0	0.0	0.0	0.0	
O	0.10	7	-10.79	1.00	-12.42	-9.16	-5.03	0.83	-6.38	-3.67	15.10	0.69	13.97	16.23	1.27	1.27	1.27	1.27
P	0.20	7	-11.34	1.26	-13.41	-9.27	-5.69	0.81	-7.02	-4.36	14.24	0.74	13.03	15.45	1.22	2.49	2.49	2.49
R	0.30	7	-12.14	1.19	-14.09	-10.19	-5.37	0.93	-7.89	-4.85	13.35	0.82	12.00	14.69	1.38	3.87	3.87	3.87
E	0.40	7	-13.13	0.93	-14.61	-11.65	-6.88	0.87	-8.31	-5.46	12.60	0.85	11.21	13.99	1.34	5.22	5.22	5.22
T	0.50	7	-13.73	0.86	-15.14	-12.32	-7.28	0.59	-8.26	-6.31	12.17	0.75	10.94	13.40	0.84	6.06	6.06	6.06
U	0.60	7	-13.97	0.47	-14.74	-13.19	-7.58	0.73	-8.78	-6.38	11.87	0.78	10.59	13.15	0.48	6.54	6.54	6.54
R	0.70	7	-14.10	0.48	-14.88	-13.32	-7.84	0.64	-8.89	-6.79	11.57	0.82	10.32	13.01	0.35	6.89	6.89	6.89
N	0.80	7	-13.97	0.60	-11.95	-12.99	-8.02	0.59	-8.99	-7.05	11.54	0.85	10.14	12.94	0.25	7.14	7.14	7.14
O	0.90	7	-13.93	0.66	-15.02	-12.84	-8.12	0.56	-9.04	-7.21	11.51	0.86	10.10	12.91	0.11	7.26	7.26	7.26
U	1.00	7	-13.88	0.64	-14.93	-12.82	-7.87	0.62	-8.89	-6.85	11.57	0.81	10.25	12.90	0.26	7.52	7.52	7.52

LANDMARK - RT ELBOW CENTER (24)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-6.50	0.85	-7.89	-5.10	-10.20	0.90	-11.67	-8.73	4.59	1.22	2.59	6.59	0.0	0.0	0.0	0.0
0.10	F	-6.77	0.42	-7.46	-6.07	-10.24	1.04	-11.94	-8.54	4.70	1.11	2.88	6.51	0.29	0.29	0.29	0.29
0.20	R	-6.31	0.48	-7.10	-5.51	-10.12	1.12	-11.95	-8.29	5.40	1.15	3.52	7.29	0.85	1.14	0.85	1.14
0.30	D	-5.24	0.62	-6.26	-4.22	-9.76	1.13	-11.61	-7.92	6.88	1.26	4.80	8.95	1.85	2.99	1.85	2.99
0.40	E	-3.76	0.42	-4.45	-3.07	-8.54	1.32	-10.71	-6.37	9.09	1.32	6.93	11.26	2.93	5.93	2.93	5.93
0.50	T	-2.39	0.68	-3.51	-1.28	-6.50	1.72	-9.32	-3.68	11.39	1.32	9.24	13.55	3.37	9.29	3.37	9.29
0.60	A	-1.50	0.97	-3.08	0.09	-4.41	1.70	-7.19	-1.63	13.06	1.08	11.30	14.83	2.82	12.11	2.82	12.11
0.70	R	-1.04	0.95	-2.59	0.52	-2.40	1.54	-4.92	0.13	14.24	0.87	12.78	15.63	2.37	14.48	2.37	14.48
0.80	D	-0.84	0.90	-2.32	0.64	-0.83	1.23	-2.84	1.18	14.79	0.75	13.57	16.02	1.68	16.16	1.68	16.16
0.90	N	-0.69	0.82	-2.03	0.65	0.06	0.94	-1.48	1.60	14.96	0.70	13.82	16.11	0.91	17.07	0.91	17.07
1.00	P	-0.62	0.65	-1.69	0.46	0.25	0.71	-0.91	1.41	14.88	0.77	13.61	16.15	0.22	17.30	0.22	17.30
0.0	T	0.62	0.65	-1.69	0.46	0.25	0.71	-0.91	1.41	14.88	0.77	13.61	16.15	0.0	0.0	0.0	0.0
0.10	F	-1.10	1.04	-2.80	0.60	-2.24	1.63	-4.91	0.44	13.56	1.32	11.39	15.74	2.86	2.86	2.86	2.86
0.20	R	-1.91	1.42	-4.24	0.41	-4.86	1.87	-7.93	-1.78	11.88	1.71	9.08	14.68	3.22	6.08	3.22	6.08
0.30	D	-3.00	1.70	-5.79	-0.22	-7.23	1.67	-9.96	-4.49	9.92	1.93	6.75	13.08	3.27	9.34	3.27	9.34
0.40	E	-4.43	1.73	-7.27	-1.59	-9.03	1.25	-11.08	-6.98	1.83	4.97	7.98	10.58	3.01	12.35	3.01	12.35
0.50	T	-5.81	1.49	-8.26	-3.36	-10.06	1.13	-11.91	-8.20	6.55	1.68	3.79	9.30	2.24	14.59	2.24	14.59
0.60	A	-6.91	1.17	-8.83	-4.99	-10.95	1.48	-13.39	-8.52	4.97	1.54	2.44	7.49	2.13	16.71	2.13	16.71
0.70	R	-6.74	0.64	-7.79	-5.69	-10.61	0.68	-11.72	-9.50	5.05	1.31	2.89	7.20	0.39	17.10	0.39	17.10
0.80	D	-6.75	0.88	-7.19	-5.30	-10.56	0.64	-11.61	-9.52	4.76	1.29	2.64	6.88	0.29	17.39	0.29	17.39
0.90	N	-6.63	0.96	-8.20	-5.05	-10.33	0.69	-11.46	-9.20	4.53	1.36	2.40	6.85	0.29	17.69	0.29	17.69
1.00	P	-6.50	0.85	-7.89	-5.10	-10.20	0.90	-11.67	-8.73	4.59	1.22	2.59	6.59	0.19	17.87	0.19	17.87

LANDMARK - RT WRIST CENTER (26)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	2.84	0.70	1.69	3.99	-10.99	0.68	-12.60	-9.88	3.68	1.00	2.03	5.32	0.0	0.0	0.0	0.0
0.10	F	2.57	0.42	1.89	3.25	-10.55	0.65	-11.61	-9.49	5.42	0.79	4.12	6.72	1.82	1.82	1.82	1.82
0.20	R	2.71	0.47	1.95	3.48	-8.82	1.11	-10.64	-7.00	7.86	1.28	5.76	9.97	3.00	4.82	3.00	4.82
0.30	D	3.04	0.39	2.41	3.68	-6.30	1.72	-9.02	-3.37	10.57	1.53	8.17	13.17	3.86	8.67	3.86	8.67
0.40	E	3.29	0.31	2.78	3.80	-2.57	2.88	-7.30	2.16	13.64	1.59	10.85	16.06	4.58	13.25	4.58	13.25
0.50	T	3.80	0.61	2.81	4.79	1.43	3.96	-5.05	7.92	15.82	1.83	12.83	18.82	4.68	17.93	4.68	17.93
0.60	A	3.94	0.57	3.01	4.87	3.04	1.73	0.21	5.87	16.07	0.94	14.52	17.62	1.63	19.56	1.63	19.56
0.70	R	4.54	0.61	5.53	5.16	5.16	1.37	7.41	16.36	0.72	15.18	17.54	2.22	21.78	2.22	21.78	
0.80	D	5.34	0.52	4.48	6.19	6.60	0.79	5.31	7.89	16.33	0.49	15.52	17.14	1.65	23.43	1.65	23.43
0.90	N	5.79	0.54	4.91	6.67	7.07	0.45	6.34	7.80	16.03	0.44	15.32	16.75	0.71	24.15	0.71	24.15
1.00	P	5.86	0.65	4.79	6.93	6.97	0.58	6.02	7.91	15.80	0.67	14.70	16.90	0.27	24.41	0.27	24.41
0.0	T	5.86	0.65	4.79	6.93	6.97	0.58	6.02	7.91	15.80	0.67	14.70	16.90	0.0	0.0	0.0	0.0
0.10	F	5.11	0.73	3.92	6.30	4.63	2.15	1.11	8.16	15.60	0.90	14.12	17.08	2.46	2.46	2.46	2.46
0.20	R	3.97	0.78	2.69	5.25	1.36	3.36	-1.15	6.88	14.70	1.55	12.15	17.24	3.58	6.04	3.58	6.04
0.30	D	3.15	1.02	1.48	4.82	-2.71	5.60	-11.89	6.46	12.81	3.08	7.76	17.86	4.57	10.60	4.57	10.60
0.40	E	2.89	0.89	1.43	4.35	-5.06	3.86	-11.39	1.27	11.60	2.24	7.99	15.33	2.63	13.23	2.63	13.23
0.50	T	2.35	0.98	0.74	3.96	-8.00	2.60	-12.26	-3.73	9.90	2.21	6.29	13.52	3.46	16.69	3.46	16.69
0.60	U	2.21	0.77	0.95	3.47	-9.67	1.85	-12.71	-6.63	8.16	2.16	6.21	11.71	2.42	19.11	2.42	19.11
0.70	R	2.18	0.54	1.30	3.06	-10.63	1.31	-12.77	-8.49	6.51	1.78	3.69	9.54	1.82	20.94	1.82	20.94
0.80	N	2.32	0.66	1.23	3.41	-11.14	0.81	-12.47	-9.80	5.26	1.29	3.15	7.38	1.45	22.38	1.45	22.38
0.90	P	2.59	0.70	1.44	3.73	-11.16	0.52	-12.02	-10.31	4.25	0.97	2.67	5.84	1.04	23.43	1.04	23.43
1.00	Q	2.84	1.69	3.99	4.79	6.93	0.58	6.02	7.91	15.80	0.67	14.70	16.90	0.23	24.08	0.23	24.08

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +7.0, +10.0, +5.0 TO PANEL CONTROLLER AT +10.0, +10.0, +15.0 AND RETURNS. RIGHT HAND REMAINS AT SIDE-ARM CONTROLLER AT +7.0, -10.0, +5.0.

MOTION NUMBER - 22240
BACK ANGLE - 65

SUB-MOVEMENT	TIME DATA		RANGE
	MEAN	STD DEV	
LEFT FWD	0.50	0.14	0.40 TO 0.80 SECS.
LEFT REV	0.46	0.16	0.20 TO 0.70 SECS.

LANDMARK - NASTION

(1)

TIME	SAMPLE SIZE, N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-17.62	1.00	-19.25	-15.93	1.78	0.90	-0.31	3.25	20.41	0.78	19.12	21.69	0.0	0.0	0.0	0.0
0.10	7	-17.50	0.96	-19.07	-15.93	1.67	0.85	0.28	3.07	20.42	0.76	19.17	21.68	0.16	0.16	0.16	0.16
F 0.20	7	-17.38	0.94	-18.92	-15.83	1.63	0.77	0.37	2.90	20.42	0.79	19.13	21.72	0.13	0.13	0.13	0.13
O 0.30	7	-17.38	1.02	-19.05	-15.71	1.64	0.74	0.42	2.85	20.46	0.82	19.11	21.81	0.04	0.04	0.04	0.04
R 0.40	7	-17.42	1.36	-19.16	-15.69	1.72	0.80	0.42	3.02	20.50	0.84	19.13	21.87	0.10	0.10	0.10	0.10
R 0.50	7	-17.41	0.93	-18.94	-15.88	1.77	0.92	0.26	3.28	20.47	0.77	19.23	21.73	0.06	0.06	0.06	0.06
A 0.60	7	-17.34	0.90	-18.83	-15.86	1.73	0.90	0.26	3.20	20.34	0.82	19.00	21.68	0.15	0.15	0.15	0.15
R 0.70	7	-17.36	0.98	-18.97	-15.75	1.72	0.87	0.30	3.14	20.35	0.81	19.00	21.67	0.02	0.02	0.02	0.02
D 0.80	7	-17.39	1.05	-19.11	-15.66	1.75	0.82	0.41	3.10	20.35	0.81	19.03	21.69	0.05	0.05	0.05	0.05
O 0.90	7	-17.41	1.03	-19.10	-15.72	1.81	0.74	0.60	3.02	20.39	0.84	19.01	21.76	0.07	0.07	0.07	0.07
1.00	7	-17.46	0.98	-19.07	-15.85	1.80	0.79	0.49	3.13	20.42	0.87	19.00	21.84	0.06	0.06	0.06	0.06
0.0	7	-17.46	0.98	-19.07	-15.85	1.80	0.79	0.49	3.10	20.42	0.87	19.00	21.84	0.0	0.0	0.0	0.0
0.10	7	-17.45	0.95	-19.03	-15.88	1.76	0.84	0.38	3.14	20.38	0.78	19.10	21.66	0.05	0.05	0.05	0.05
0.20	7	-17.45	0.95	-19.01	-15.89	1.78	0.86	0.37	3.18	20.35	0.75	19.12	21.58	0.03	0.03	0.03	0.03
R 0.30	7	-17.50	0.99	-19.12	-15.87	1.80	0.84	0.43	3.18	20.38	0.80	19.07	21.70	0.07	0.07	0.07	0.07
E 0.40	7	-17.57	1.01	-19.23	-15.90	1.78	0.85	0.38	3.18	20.40	0.81	19.06	21.73	0.07	0.07	0.07	0.07
T 0.50	7	-17.52	1.10	-19.34	-15.91	1.80	0.82	0.45	3.15	20.38	0.81	19.06	21.71	0.05	0.05	0.05	0.05
U 0.60	7	-17.50	1.11	-19.33	-15.68	1.77	0.81	0.43	3.10	20.38	0.78	19.10	21.66	0.04	0.04	0.04	0.04
R 0.70	7	-17.52	0.99	-19.14	-15.89	1.73	0.83	0.37	3.08	20.38	0.78	19.11	21.66	0.04	0.04	0.04	0.04
N 0.80	7	-17.51	0.92	-19.00	-16.03	1.72	0.86	0.27	3.13	20.39	0.73	19.20	21.59	0.01	0.01	0.01	0.01
Q 0.90	7	-17.57	0.92	-19.08	-16.06	1.73	0.89	0.27	3.19	20.41	0.73	19.21	21.60	0.06	0.06	0.06	0.06
1.00	7	-17.62	1.00	-19.25	-15.98	1.78	0.90	0.31	3.25	20.41	0.78	19.12	21.69	0.07	0.07	0.07	0.07

LANDMARK - CERVICALE

(2)

TIME	SAMPLE SIZE, N	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-18.37	0.34	-19.43	-18.32	-0.14	2.61	-4.43	4.14	12.96	0.98	11.36	14.57	0.0	0.0	0.0	0.0
0.10	7	-18.83	0.28	-19.30	-18.36	-0.45	2.36	-4.32	3.41	13.03	0.65	11.96	14.10	0.32	0.32	0.32	0.32
F 0.20	7	-18.75	0.22	-19.11	-18.39	-0.69	2.45	-4.70	3.32	13.07	0.59	12.10	14.02	0.25	0.25	0.25	0.25
D 0.30	7	-18.69	0.23	-19.07	-18.30	-0.74	2.51	-4.86	3.38	13.07	0.66	11.98	14.15	0.08	0.08	0.08	0.08
R 0.40	7	-18.69	0.33	-19.22	-18.15	-0.62	2.36	-4.49	3.25	13.05	0.64	12.01	14.09	0.12	0.12	0.12	0.12
W 0.50	7	-18.92	0.47	-19.70	-18.14	-0.63	2.30	-4.40	3.13	13.23	0.62	12.21	14.25	0.29	0.29	0.29	0.29
A 0.60	7	-18.90	0.48	-19.69	-18.11	-0.57	2.50	-4.66	3.53	13.30	0.87	11.87	14.74	0.10	0.10	0.10	0.10
R 0.70	7	-18.74	0.46	-19.50	-17.99	-0.59	2.43	-4.58	3.40	13.20	0.83	11.85	14.56	0.18	0.18	0.18	0.18
D 0.80	7	-18.70	0.49	-19.50	-17.90	-0.51	2.30	-4.28	3.25	13.15	0.73	11.96	14.35	0.11	0.11	0.11	0.11
O 0.90	7	-18.96	0.40	-19.61	-18.31	-0.24	2.28	-3.93	3.51	13.10	0.57	12.17	14.03	0.38	0.38	0.38	0.38
1.00	7	-19.17	0.54	-20.06	-18.29	0.02	2.53	-4.13	4.16	13.05	0.54	12.16	13.94	0.33	0.33	0.33	0.33
0.0	7	-19.17	0.54	-20.06	-18.29	0.02	2.53	-4.13	4.16	13.05	0.54	12.16	13.94	0.0	0.0	0.0	0.0
0.10	7	-19.03	0.52	-19.88	-18.17	0.02	2.45	-4.01	4.04	12.96	0.63	11.93	14.00	0.17	0.17	0.17	0.17
0.20	7	-18.87	0.58	-19.82	-17.92	0.07	2.39	-3.84	3.99	12.93	0.71	11.72	14.07	0.18	0.18	0.18	0.18
R 0.30	7	-18.92	0.41	-19.59	-16.24	0.06	2.48	-4.00	4.12	12.93	0.76	11.65	14.14	0.05	0.05	0.05	0.05
E 0.40	7	-19.06	0.41	-19.74	-18.38	0.03	2.70	-4.39	4.45	12.96	0.78	11.69	14.24	0.16	0.16	0.16	0.16
T 0.50	7	-19.02	0.47	-19.79	-18.25	0.05	2.81	-4.55	4.65	13.03	0.79	11.71	14.30	0.05	0.05	0.05	0.05
U 0.60	7	-18.83	0.49	-19.64	-18.03	0.00	2.72	-4.46	4.47	12.99	0.74	11.77	14.21	0.19	0.19	0.19	0.19
R 0.70	7	-18.74	0.59	-19.71	-17.77	-0.03	2.69	-4.43	4.37	13.03	0.83	11.64	14.37	0.10	0.10	0.10	0.10
N 0.80	7	-18.73	0.57	-19.71	-17.85	-0.10	2.65	-4.45	4.24	13.07	0.85	11.68	14.46	0.11	0.11	0.11	0.11
O 0.90	7	-18.83	0.39	-19.47	-18.19	-0.13	2.60	-4.40	4.13	13.03	0.87	11.60	14.47	0.07	0.07	0.07	0.07
1.00	7	-18.87	0.34	-19.43	-18.32	-0.14	2.61	-4.43	4.14	12.96	0.98	11.36	14.57	0.08	0.08	0.08	0.08

LANDMARK - SUPRASTERNALE (3)

TIME	SAMPLE SIZE, N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-14.95	0.97	-16.53	-13.36	0.33	1.61	-2.32	2.97	0.40	13.25	1.457	0.0	0.0	1.457	0.0	0.0
F	7	-14.87	1.01	-16.52	-13.22	0.23	1.45	-2.15	2.61	0.41	13.39	1.456	0.13	0.13	1.456	0.13	0.13
O	20	-14.76	1.07	-16.52	-13.01	0.15	1.34	-2.05	2.36	0.40	13.91	1.457	0.13	0.13	1.457	0.13	0.13
O	30	-14.75	1.07	-16.50	-13.00	0.10	1.32	-2.06	2.26	0.40	13.91	1.457	0.13	0.13	1.457	0.13	0.13
R	40	-14.78	1.01	-16.43	-13.12	0.18	1.35	-2.03	2.39	0.47	13.91	1.467	0.05	0.31	1.467	0.05	0.31
W	50	-14.75	0.98	-16.39	-13.18	0.18	1.35	-2.03	2.39	0.56	13.88	1.479	0.09	0.40	1.479	0.09	0.40
A	60	-14.75	1.03	-16.45	-13.06	0.32	1.43	-2.00	2.63	0.47	13.88	1.466	0.13	0.54	1.466	0.13	0.54
R	70	-14.74	1.08	-16.52	-12.97	0.23	1.49	-2.20	2.66	0.46	13.08	1.461	0.05	0.59	1.461	0.05	0.59
D	80	-14.78	1.12	-16.61	-12.95	0.20	1.57	-2.38	2.78	0.44	13.16	1.460	0.09	0.68	1.460	0.09	0.68
O	90	-14.87	1.14	-16.73	-13.00	0.24	1.55	-2.29	2.77	0.42	13.23	1.460	0.06	0.74	1.460	0.06	0.74
1.00	7	-14.89	1.15	-16.78	-13.00	0.28	1.54	-2.24	2.80	0.48	13.08	1.464	0.06	0.83	1.464	0.06	0.83
0.0	7	-14.89	1.15	-16.78	-13.00	0.28	1.54	-2.24	2.80	0.48	13.08	1.464	0.0	0.0	1.464	0.0	0.0
O	10	-14.98	0.83	-16.34	-13.62	0.11	1.49	-2.33	2.55	0.49	13.34	1.464	0.19	0.19	1.464	0.19	0.19
O	20	-15.07	0.92	-16.58	-13.56	0.00	1.63	-2.67	2.67	0.49	13.04	1.466	0.15	0.33	1.466	0.15	0.33
R	30	-15.21	1.07	-16.97	-13.45	-0.01	1.81	-2.97	2.98	0.52	13.05	1.474	0.15	0.48	1.474	0.15	0.48
E	40	-15.16	1.19	-17.11	-13.20	0.11	1.81	-2.86	2.95	0.47	13.18	1.471	0.15	0.63	1.471	0.15	0.63
T	50	-14.90	1.15	-16.80	-13.01	0.31	1.72	-2.52	3.13	0.43	13.22	1.464	0.32	0.95	1.464	0.32	0.95
U	60	-14.80	1.02	-16.48	-13.12	0.35	1.70	-2.45	3.14	0.38	13.28	1.454	0.12	1.06	1.454	0.12	1.06
R	70	-14.80	1.11	-16.62	-12.98	0.34	1.80	-2.61	3.29	0.35	13.33	1.459	0.01	1.07	1.459	0.01	1.07
N	80	-14.86	1.17	-16.77	-12.94	0.28	1.85	-2.76	3.31	0.37	13.31	1.453	0.09	1.16	1.453	0.09	1.16
O	90	-14.90	1.06	-16.64	-13.16	0.29	1.71	-2.52	3.09	0.38	13.28	1.454	0.05	1.20	1.454	0.05	1.20
1.00	7	-14.95	0.97	-16.53	-13.36	0.33	1.61	-2.32	2.97	0.40	13.25	1.457	0.06	0.83	1.457	0.06	0.83

LANDMARK - LT ALCROMION (5)

TIME	SAMPLE SIZE, N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	6	-17.23	0.91	-18.72	-15.74	0.41	7.27	8.61	11.55	0.59	10.69	12.61	0.0	0.0	0.0	0.0	0.0	
O	10	-17.38	0.61	-18.37	-16.38	7.85	0.50	7.04	8.67	11.41	0.44	10.69	12.13	0.30	0.30	0.30	0.30	0.30
F	20	-17.46	0.37	-18.08	-16.85	7.81	0.55	6.90	8.71	11.16	0.36	10.57	11.74	0.27	0.57	0.27	0.57	0.27
O	30	-17.39	0.38	-18.03	-16.76	7.62	0.39	6.98	8.26	11.09	0.37	10.48	11.71	0.21	0.78	0.21	0.78	0.21
R	40	-17.22	0.60	-18.19	-16.24	7.59	0.63	6.56	8.63	11.15	0.42	10.45	11.85	0.19	0.96	0.19	0.96	0.19
W	50	-17.08	0.63	-18.10	-16.05	7.69	0.64	6.64	8.75	11.25	0.34	10.69	11.81	0.20	1.16	0.20	1.16	0.20
A	60	-16.87	0.59	-17.84	-15.90	7.67	0.52	6.83	8.52	11.29	0.31	10.77	11.80	0.21	1.37	0.21	1.37	0.21
R	70	-16.69	0.43	-17.39	-15.99	7.70	0.42	7.01	8.38	11.37	0.36	10.78	11.96	0.20	1.57	0.20	1.57	0.20
D	80	-16.58	0.32	-17.10	-16.05	7.73	0.43	7.03	8.43	11.45	0.44	10.72	12.18	0.14	1.71	0.14	1.71	0.14
O	90	-16.17	0.67	-17.28	-15.06	7.47	0.65	6.08	8.86	11.52	0.55	10.61	12.42	0.49	2.20	0.49	2.20	0.49
1.00	6	-15.70	1.25	-17.75	-13.66	7.24	1.79	4.31	10.17	11.53	0.67	10.47	12.68	0.0	0.0	0.0	0.0	0.0
0.0	6	-15.70	1.25	-17.75	-13.66	7.24	1.79	4.31	10.17	11.53	0.67	10.47	12.68	0.0	0.0	0.0	0.0	0.0
O	10	-16.07	0.75	-17.30	-14.85	7.50	1.03	5.81	9.19	11.52	0.62	10.60	12.64	0.45	0.45	0.45	0.45	0.45
O	20	-16.41	0.44	-17.13	-15.68	7.82	0.40	7.17	8.48	11.54	0.55	10.74	12.54	0.47	0.92	0.47	0.92	0.47
R	30	-16.66	0.55	-17.56	-15.77	7.93	0.37	7.32	8.54	11.63	0.45	10.89	12.37	0.27	1.19	0.27	1.19	0.27
E	40	-16.86	0.65	-17.93	-15.79	7.81	0.45	7.07	8.56	11.64	0.42	10.95	12.32	0.23	1.43	0.23	1.43	0.23
T	50	-16.97	0.72	-18.16	-15.79	7.80	0.39	7.15	8.45	11.62	0.41	10.95	12.29	0.11	1.54	0.11	1.54	0.11
U	60	-16.88	0.65	-17.95	-15.82	7.74	0.41	7.07	8.41	11.58	0.43	10.87	12.29	0.11	1.65	0.11	1.65	0.11
R	70	-16.78	0.62	-17.80	-15.77	7.75	0.49	6.96	8.55	11.55	0.44	10.82	12.27	0.11	1.76	0.11	1.76	0.11
N	80	-16.85	0.65	-17.92	-15.79	7.72	0.57	6.78	8.65	11.55	0.44	10.84	12.27	0.08	1.84	0.08	1.84	0.08
O	90	-17.05	0.74	-18.27	-15.83	7.80	0.50	6.98	8.62	11.51	0.49	10.81	12.41	0.22	2.06	0.22	2.06	0.22
1.00	6	-17.23	0.91	-18.72	-15.74	7.94	0.41	7.27	8.61	11.53	0.59	10.69	12.61	0.23	2.29	0.23	2.29	0.23

LANDMARK - LT GRIP CENTER (17)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	
0.0	T	5.28	1.75	2.42	8.15	11.31	0.71	10.14	12.48	5.89	0.40	5.23	6.55	0.0	0.0	0.0	0.0	
0.10	F	5.28	0.98	3.67	6.89	10.79	0.77	9.53	12.05	7.23	0.84	5.83	8.58	1.41	1.41	1.41	1.41	
0.20	R	5.54	0.49	4.74	6.35	10.56	0.73	9.36	11.76	9.85	3.09	7.44	14.92	2.66	4.07	4.07	4.07	
0.30	D	5.27	0.37	4.67	5.87	10.25	0.62	9.23	11.27	11.57	2.05	7.44	15.69	1.77	5.84	5.84	5.84	
0.40	E	5.02	0.42	4.33	5.71	10.11	0.45	9.37	10.85	13.25	2.15	9.72	16.77	1.70	7.55	7.55	7.55	
0.50	T	5.19	0.39	4.83	10.19	9.67	1.07	10.71	14.30	1.89	11.19	17.40	1.07	8.51	8.51	8.51		
0.60	A	5.82	0.64	4.77	6.87	10.30	0.34	9.73	10.86	14.93	1.72	12.08	17.71	0.88	9.49	9.49	9.49	
0.70	R	6.68	0.63	5.63	7.72	10.42	0.40	9.77	11.08	15.17	1.39	12.90	17.44	0.91	10.40	10.40	10.40	
0.80	D	7.42	0.64	6.37	8.47	10.57	0.53	9.71	11.44	15.33	1.12	13.48	17.17	0.78	11.17	11.17	11.17	
0.90	N	7.66	0.49	6.85	8.47	10.72	0.74	9.51	11.92	15.34	0.89	13.58	16.49	0.40	11.58	11.58	11.58	
1.00	W	8.05	0.58	7.10	9.00	10.97	0.93	9.44	12.50	14.88	0.78	13.60	16.17	0.49	12.06	12.06	12.06	
0.0	U	6	8.05	0.58	7.10	9.00	10.97	0.93	9.44	12.50	14.88	0.78	13.60	16.17	0.0	0.0	0.0	0.0
0.10	V	7.34	0.86	5.93	8.75	10.84	0.91	9.35	12.32	14.20	0.97	12.61	15.79	0.99	0.99	0.99	0.99	
0.20	G	6.71	0.98	5.10	8.32	10.57	0.77	9.30	11.83	13.82	1.21	11.85	15.80	0.79	1.78	1.78	1.78	
0.30	R	6.97	0.80	4.67	7.28	10.45	0.74	9.24	11.67	12.83	1.03	11.10	14.49	1.27	3.04	3.04	3.04	
0.40	E	6.63	0.83	4.26	6.99	10.50	0.74	9.29	11.71	11.57	0.87	10.14	13.01	1.27	4.32	4.32	4.32	
0.50	T	6.55	1.04	3.94	7.36	10.62	0.82	9.28	11.96	10.23	0.68	9.12	11.35	1.34	5.66	5.66	5.66	
0.60	U	6	5.85	1.30	3.71	7.99	10.86	0.81	9.53	12.18	8.95	0.43	8.26	9.65	1.32	6.98	6.98	6.98
0.70	R	6	5.88	1.43	3.54	8.22	11.01	0.74	9.80	12.22	7.81	0.30	7.33	8.30	1.15	8.13	8.13	8.13
0.80	N	6	5.89	1.53	3.39	8.40	11.15	0.69	10.02	12.28	6.35	0.41	6.18	7.52	0.98	9.10	9.10	9.10
0.90	Q	4	5.25	1.56	2.70	7.80	11.20	0.75	9.97	12.42	6.46	0.34	5.90	7.02	0.75	9.86	9.86	9.86
1.00	W	4	1.75	2.42	8.15	11.31	0.71	10.14	12.48	5.89	0.40	5.23	6.55	10.44	0.58	10.44	10.44	10.44

LANDMARK - LT TROCHANTER (19)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	1.52	0.29	2.01	7.10	1.26	5.04	5.04	7.88	1.97	0.55	1.97	3.79	0.0	0.0	0.0	0.0
0.10	F	1.58	0.48	0.79	2.37	6.88	0.85	5.48	8.28	2.91	0.54	2.03	3.79	0.49	0.49	0.49	0.49
0.20	R	1.76	0.87	0.34	3.18	6.63	0.64	5.58	7.68	3.00	0.48	2.21	3.79	0.32	0.81	0.32	0.81
0.30	D	1.94	0.72	0.76	3.13	6.55	0.82	5.20	7.90	2.94	0.47	2.17	3.72	0.21	1.02	0.21	1.02
0.40	E	1.81	0.73	0.61	3.01	6.68	0.85	5.29	8.07	2.91	0.45	2.18	3.64	0.20	1.21	0.20	1.21
0.50	T	1.71	0.79	0.41	3.01	6.67	0.87	5.24	8.09	2.38	0.44	2.16	3.59	0.10	1.31	0.10	1.31
0.60	A	1.64	0.69	0.51	2.77	6.55	0.79	5.25	7.84	2.85	0.47	2.08	3.61	0.14	1.46	0.14	1.46
0.70	R	1.61	0.73	0.50	2.50	6.47	0.86	5.05	7.88	2.84	0.47	2.15	3.53	0.09	1.54	0.09	1.54
0.80	D	1.68	0.54	0.78	2.57	6.48	0.80	5.17	7.78	2.87	0.39	2.23	3.51	0.07	1.61	0.07	1.61
0.90	N	1.76	0.75	0.53	3.00	6.49	0.61	5.48	7.50	2.93	0.43	2.22	3.63	0.10	1.72	0.10	1.72
1.00	W	1.82	1.07	0.07	3.58	6.45	0.72	5.27	7.63	2.96	0.52	2.10	3.82	0.08	1.79	0.08	1.79
0.0	U	1.82	1.07	0.07	3.58	6.45	0.72	5.27	7.63	2.96	0.52	2.10	3.82	0.0	0.0	0.0	0.0
0.10	V	1.75	0.88	0.30	6.61	0.79	5.31	5.31	7.91	2.89	0.55	2.01	3.80	0.18	0.18	0.18	0.18
0.20	G	1.66	0.84	0.29	3.04	6.77	0.88	5.32	8.22	2.89	0.50	2.08	3.71	0.18	0.36	0.18	0.36
0.30	R	1.55	0.74	0.34	2.76	6.80	0.79	5.51	8.10	2.90	0.41	2.23	3.57	0.12	0.48	0.12	0.48
0.40	E	1.59	0.61	0.59	2.58	6.86	0.66	5.78	7.94	2.86	0.44	2.15	3.58	0.08	0.56	0.08	0.56
0.50	T	1.69	0.56	0.76	2.62	6.87	0.69	5.73	8.00	2.87	0.45	2.14	3.61	0.10	0.66	0.10	0.66
0.60	U	1.57	0.70	0.41	2.72	6.87	0.71	5.71	8.04	2.91	0.47	2.15	3.68	0.13	0.80	0.13	0.80
0.70	R	1.23	1.12	-0.61	3.06	7.13	0.87	5.71	8.56	2.93	0.51	2.09	3.77	0.43	1.22	0.43	1.22
0.80	N	1.18	0.89	-0.28	2.63	7.10	1.09	5.30	8.89	2.96	0.53	2.09	3.82	0.07	1.29	0.07	1.29
0.90	Q	1.16	0.63	0.12	2.20	7.08	1.26	5.01	9.14	2.97	0.59	2.01	3.93	0.03	1.32	0.03	1.32
1.00	W	1.15	0.52	0.29	2.01	7.10	1.26	5.04	9.17	2.88	0.55	2.01	3.79	0.09	1.41	0.09	1.41

LANDMARK - LT KNEE TOP (21)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	6	17.33	1.23	15.32	19.34	5.54	1.19	3.58	7.50	9.69	2.47	5.64	13.73	0.0	0.0	0.0	0.0
0.10	6	17.45	1.31	15.29	19.60	5.48	1.13	3.62	7.34	9.55	2.52	5.52	13.78	0.14	0.14	0.14	0.14
F 0.20	6	17.62	1.31	15.47	19.76	5.44	1.08	3.67	7.21	9.65	2.49	5.57	13.73	0.17	0.31	0.17	0.31
O 0.30	7	17.53	1.28	15.43	19.63	5.22	1.05	3.50	6.94	9.80	2.28	6.06	13.53	0.27	0.27	0.27	0.27
R 0.40	7	17.63	1.39	15.14	19.71	5.28	1.05	3.55	7.01	9.81	2.30	6.04	13.58	0.12	0.59	0.12	0.71
W 0.50	7	17.43	1.35	15.22	19.64	5.37	0.99	3.74	7.00	9.77	2.32	5.98	13.57	0.10	0.80	0.10	0.80
A 0.60	7	17.54	1.29	15.43	19.65	5.49	1.02	3.81	7.17	9.71	2.38	5.81	13.62	0.17	0.98	0.17	0.98
R 0.70	7	17.61	1.22	15.60	19.61	5.44	1.00	3.81	7.08	9.74	2.36	5.87	13.61	0.08	1.06	0.08	1.06
D 0.80	6	17.68	1.31	15.53	19.83	5.46	1.13	3.60	7.32	9.67	2.54	5.51	13.83	0.11	1.17	0.11	1.17
O 0.90	6	17.63	1.34	15.43	19.83	5.48	1.19	3.53	7.44	9.66	2.52	5.52	13.79	0.06	1.23	0.06	1.23
1.00	6	17.58	1.36	15.35	19.81	5.43	1.11	3.62	7.25	9.63	2.54	5.47	13.79	0.07	1.30	0.07	1.30
0.0	6	17.58	1.36	15.35	19.81	5.43	1.11	3.62	7.25	9.63	2.54	5.47	13.79	0.0	0.0	0.0	0.0
0.10	6	17.56	1.40	15.85	19.85	5.48	1.12	3.63	7.32	9.61	2.51	5.50	13.72	0.05	0.05	0.05	0.05
F 0.20	6	17.55	1.43	15.21	19.89	5.56	1.21	3.57	7.55	9.59	2.48	5.53	13.66	0.09	0.14	0.09	0.14
R 0.30	6	17.53	1.38	15.26	19.79	5.61	1.28	3.51	7.71	9.61	2.49	5.53	13.68	0.06	0.19	0.06	0.19
E 0.40	6	17.50	1.41	15.19	19.82	5.63	1.35	3.42	7.85	9.63	2.50	5.52	13.73	0.04	0.24	0.04	0.24
T 0.50	6	17.48	1.34	15.29	19.67	5.59	1.31	3.44	7.74	9.64	2.53	5.49	13.79	0.05	0.28	0.05	0.28
U 0.60	6	17.59	1.37	15.34	19.84	5.57	1.16	3.67	7.47	9.62	2.51	5.50	13.74	0.11	0.40	0.11	0.40
R 0.70	6	17.62	1.45	15.24	19.99	5.56	1.07	3.81	7.31	9.60	2.49	5.52	13.68	0.03	0.43	0.03	0.43
N 0.80	6	17.62	1.46	15.22	20.01	5.60	1.01	3.94	7.26	9.61	2.48	5.55	13.68	0.04	0.47	0.04	0.47
O 0.90	6	17.47	1.34	15.27	19.68	5.58	1.06	3.83	7.32	9.65	2.48	5.58	13.72	0.15	0.61	0.15	0.61
1.00	6	17.33	1.23	15.32	19.34	5.54	1.19	3.58	7.50	9.69	2.47	5.64	13.73	0.16	0.77	0.16	0.77

LANDMARK - LT SHOULDER CENTER (23)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)					(- - - - Y - CO-ORDINATE - - - -)					(- - - - Z - CO-ORDINATE - - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-14.61	0.78	-13.33	8.57	0.46	f.81	9.33	10.94	0.69	0.79	12.04	0.0	0.0	0.0	0.0	0.0
0.10	7	-14.75	0.62	-15.76	8.31	0.30	7.82	8.81	10.84	0.52	0.98	11.70	0.30	0.30	0.30	0.30	0.30
F 0.20	7	-14.88	0.60	-15.69	14.06	8.10	0.38	7.48	8.72	10.80	0.33	10.25	11.35	0.25	0.55	0.25	0.55
O 0.30	7	-14.94	0.48	-15.72	-14.16	8.03	0.32	7.51	8.55	10.96	0.35	10.38	11.54	0.19	0.74	0.19	0.74
R 0.40	7	-14.91	0.46	-15.66	-14.15	8.12	0.24	7.73	8.51	11.11	0.45	10.45	11.85	0.18	0.92	0.18	0.92
W 0.50	7	-14.73	0.33	-15.27	-14.19	8.24	0.25	7.83	8.65	11.19	0.40	10.54	11.84	0.23	1.15	0.23	1.15
A 0.60	7	-14.48	0.46	-15.23	-13.73	8.32	0.42	7.62	9.01	11.24	0.43	10.54	11.93	0.26	1.41	0.26	1.41
R 0.70	7	-14.16	0.38	-13.54	-13.54	8.38	0.52	7.53	9.23	11.33	0.43	10.63	12.03	0.34	1.75	0.34	1.75
D 0.80	7	-13.87	0.46	-14.63	-13.11	8.46	0.59	7.49	9.42	11.41	0.44	10.68	12.14	0.31	2.06	0.31	2.06
O 0.90	7	-13.69	0.45	-14.42	-12.95	8.46	0.70	7.31	9.60	11.51	0.46	10.76	12.27	0.21	2.27	0.21	2.27
1.00	7	-13.48	0.51	-14.32	-12.64	8.35	0.85	7.97	9.74	11.59	0.51	10.76	12.42	0.25	2.52	0.25	2.52
0.0	7	-13.48	0.51	-14.32	-12.64	8.35	0.85	6.97	9.74	11.59	0.51	10.76	12.42	0.0	0.0	0.0	0.0
0.10	7	-13.69	0.54	-14.58	-12.79	8.32	0.69	7.19	9.44	11.46	0.54	10.58	12.34	0.25	0.49	0.24	0.49
0.20	7	-13.86	0.66	-14.95	-12.78	8.38	0.67	7.28	9.48	11.31	0.61	10.31	12.31	0.24	0.76	0.27	0.76
R 0.30	7	-14.06	0.66	-15.14	-12.99	8.48	0.56	7.56	9.39	11.16	0.61	10.15	12.16	0.27	0.76	0.27	0.76
E 0.40	7	-14.26	0.73	-15.46	-13.05	8.51	0.49	7.69	9.32	11.06	0.56	10.14	11.98	0.22	0.98	0.22	0.98
T 0.50	7	-14.43	0.85	-15.82	-13.04	8.52	0.44	7.81	9.24	11.04	0.55	10.11	11.91	0.18	1.16	0.18	1.16
U 0.60	7	-14.55	0.79	-15.85	-13.25	8.44	0.43	7.75	9.14	11.00	0.55	10.10	11.90	0.14	1.30	0.14	1.30
R 0.70	7	-14.59	0.83	-15.95	-13.22	8.34	0.48	7.56	9.12	11.00	0.61	10.01	11.99	0.11	1.42	0.11	1.42
N 0.80	7	-14.57	0.88	-16.01	-13.13	8.35	0.51	7.51	9.19	11.10	0.64	10.06	12.05	0.02	1.44	0.02	1.44
O 0.90	7	-14.59	0.81	-15.92	-13.26	8.45	0.46	7.70	9.20	10.97	0.65	9.90	12.03	0.11	1.55	0.11	1.55
1.00	7	-14.61	0.78	-15.89	-13.33	8.57	0.46	7.81	9.33	10.91	0.69	9.79	12.04	0.13	1.68	0.13	1.68

LANDMARK - LT ELBOW CENTER (25)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		T SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	7	-7.26	1.017	-8.16	-5.35	13.01	0.56	12.09	13.93	5.33	1.42	3.00	7.65	0.0	0.0	7.65	0.0
0.10	F	7	-7.07	0.66	-7.54	-5.99	12.54	0.85	11.14	13.94	5.53	1.37	3.29	7.77	0.55	0.55	7.77	0.55
0.20	R	7	-6.90	0.39	-7.54	-6.26	12.34	0.87	10.92	13.77	5.73	1.28	3.63	7.84	0.33	0.88	7.84	0.33
0.30	R	7	-6.64	0.37	-7.25	-6.03	12.31	0.81	10.99	13.63	6.42	1.37	4.17	8.68	0.74	1.62	8.68	0.74
0.40	R	7	-6.39	0.32	-6.87	-5.87	12.43	0.64	11.33	13.49	6.96	1.41	4.65	9.27	0.61	2.23	9.27	0.61
0.50	H	7	-5.90	0.33	-6.44	-5.35	12.48	0.47	11.70	13.26	7.93	1.58	5.34	10.52	1.09	3.31	10.52	1.09
0.60	A	7	-5.55	0.27	-6.00	-5.10	12.37	0.42	11.68	13.07	8.56	1.59	5.95	11.17	0.73	4.04	11.17	0.73
0.70	R	7	-4.93	0.61	-5.92	-3.93	12.25	0.37	11.63	12.86	9.56	1.79	6.63	12.50	1.19	5.23	12.50	1.19
0.80	D	7	-4.74	0.21	-5.08	-4.39	12.08	0.37	11.47	12.68	9.83	1.51	7.35	12.31	0.37	5.60	12.31	0.37
0.90	N	6	-4.43	0.19	-4.74	-4.12	11.86	0.29	11.39	12.32	10.47	1.45	8.09	12.85	0.74	6.34	12.85	0.74
1.00	L	6	-4.12	0.21	-4.47	-3.77	11.69	0.29	11.21	12.17	10.85	1.42	8.53	13.18	0.52	6.86	13.18	0.52
0.0	0	6	-4.12	0.21	-4.47	-3.77	11.69	0.29	11.21	12.17	10.85	1.42	8.53	13.18	0.52	6.86	13.18	0.52
0.10	6	6	-4.48	0.38	-5.11	-3.85	11.96	0.56	11.04	12.88	9.98	1.43	7.63	12.33	0.99	5.23	12.33	0.99
0.20	R	6	-4.90	0.59	-5.86	-3.93	12.36	0.77	11.10	13.62	9.00	1.45	6.61	11.38	1.13	2.12	11.38	1.13
0.30	R	7	-5.55	0.55	-6.45	-4.65	12.83	0.44	12.11	13.55	7.78	1.22	5.77	9.78	1.47	3.59	9.78	1.47
0.40	E	7	-6.18	0.63	-7.22	-5.14	13.06	0.40	12.41	13.72	9.97	1.27	4.89	9.05	1.05	4.63	9.05	1.05
0.50	T	7	-6.64	0.71	-7.80	-5.48	13.15	0.47	12.39	13.92	6.28	1.38	4.02	8.54	0.84	5.47	8.54	0.84
0.60	U	7	-6.72	0.76	-7.97	-5.48	13.18	0.55	12.28	14.09	5.97	1.44	3.61	8.33	0.32	5.79	8.33	0.32
0.70	R	7	-6.80	0.79	-8.10	-5.51	13.21	0.64	12.16	14.26	5.73	1.52	3.24	8.22	0.26	6.05	8.22	0.26
0.80	N	7	-6.96	0.87	-8.39	-5.53	13.16	0.67	12.06	14.26	5.56	1.53	3.05	8.06	0.24	6.29	8.06	0.24
0.90	7	7	-7.13	1.00	-8.77	-5.49	13.07	0.59	12.10	14.05	5.45	1.47	3.04	7.87	0.22	6.50	7.87	0.22
1.00	7	7	-7.26	1.17	-9.17	-5.35	13.01	0.56	12.09	13.93	5.33	1.42	3.00	7.65	0.19	6.69	7.65	0.19

LANDMARK - LT WRIST CENTER (27)

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE						
		T SIZE, N	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	3	3.16	1.62	0.51	5.81	1.21	0.66	11.12	13.29	5.84	0.13	5.62	6.06	0.0	0.0	6.06	0.0
0.10	F	3	2.87	1.57	0.30	5.45	11.74	0.23	11.36	12.13	6.64	0.86	5.22	8.06	0.97	0.97	8.06	0.97
0.20	R	4	1.41	0.15	4.78	11.44	0.39	10.80	12.07	7.99	1.76	5.10	10.89	1.45	2.42	10.89	1.45	
0.30	D	4	2.69	0.22	0.68	4.69	11.22	0.25	10.81	11.63	9.76	1.78	6.84	12.68	1.79	4.20	12.68	1.79
0.40	E	4	3.22	1.01	1.57	4.87	11.25	0.24	10.86	11.64	11.54	2.00	8.25	14.82	1.86	6.06	14.82	1.86
0.50	H	5	3.45	0.84	2.07	4.83	11.09	0.40	10.42	11.75	11.16	2.28	7.41	14.90	0.47	6.53	14.90	0.47
0.60	A	5	3.89	0.84	2.51	5.26	11.24	0.45	10.69	11.98	12.12	1.98	8.89	15.37	1.08	7.61	15.37	1.08
0.70	R	5	4.33	0.64	3.28	5.37	11.43	0.59	10.46	12.40	12.78	1.81	9.82	15.75	0.81	8.42	15.75	0.81
0.80	D	5	4.78	0.59	5.74	5.74	11.59	0.75	10.36	12.81	13.31	1.70	10.53	16.09	0.71	9.13	16.09	0.71
0.90	N	5	5.11	0.60	4.11	6.10	11.65	0.90	10.18	13.12	13.57	1.74	10.72	16.42	0.42	9.55	16.42	0.42
1.00	L	5	5.36	0.47	4.58	6.13	11.70	1.04	10.00	13.41	13.16	1.02	11.49	14.83	0.48	10.03	14.83	0.48
0.0	0	5	5.36	0.47	4.58	6.13	11.70	1.04	10.00	13.41	13.16	1.02	11.49	14.83	0.48	0.0	14.83	0.48
0.10	R	4	4.85	0.27	4.40	5.30	11.61	1.05	9.89	13.33	12.14	1.01	10.48	13.81	1.14	1.14	13.81	1.14
0.20	R	4	4.26	0.36	3.66	4.85	11.67	1.00	10.02	13.31	11.21	0.91	9.72	12.70	1.11	2.25	12.70	1.11
0.30	E	4	3.82	0.51	2.98	4.66	11.66	1.05	9.93	13.39	10.27	0.85	8.88	11.67	1.04	3.29	11.67	1.04
0.40	T	4	3.53	0.69	2.40	4.65	11.59	1.21	9.60	13.58	9.33	0.89	7.87	10.79	0.99	6.28	10.79	0.99
0.50	T	4	3.23	0.96	1.67	4.80	11.52	1.40	9.22	13.81	8.39	1.02	6.71	10.07	0.99	5.26	10.07	0.99
0.60	U	3	3.13	1.25	1.08	5.17	12.08	0.17	11.80	12.35	8.04	0.86	6.62	9.45	0.67	5.93	9.45	0.67
0.70	R	3	2.95	1.37	0.71	5.20	11.97	0.21	11.63	12.31	7.39	0.73	6.20	8.58	0.68	6.61	8.58	0.68
0.80	N	3	2.93	1.45	0.54	5.31	11.97	0.43	11.27	12.68	6.82	0.53	5.95	7.69	0.57	7.18	7.69	0.57
0.90	O	3	3.04	1.52	0.55	5.53	12.09	0.54	11.21	12.97	6.33	0.24	5.94	6.72	0.52	7.70	6.72	0.52
1.00	3	3.16	1.62	0.62	5.81	12.21	0.66	11.12	13.29	5.84	0.13	5.62	6.06	0.52	8.21	6.06	0.52	

MVHT NO. 22240/65

MOVEMENT: RIGHT HAND MOVES FROM SIDE-ARM CONTROLLER AT +7.0, -10.0, +5.0 TO HATCH RELEASE CONTROLLER AT -5.0, -13.0, +15.0 AND RETURNS. LEFT HAND REMAINS AT THROTTLE CONTROLLER AT +7.0, +10.0, +5.0.

MOTION NUMBER - 12160
BACK ANGLE - 65

SUB-MOVEMENT	TIME DATA			RANGE
	MEAN	STD DEV		
RGHT FWD	0.84	0.13	0.70 TO 1.00	SECS.
RGHT REV	0.83	0.13	0.70 TO 1.00	SECS.

LANDMARK - NASION

(1)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	S, N	-17.16	1.09	-18.95	-15.38	-2.17	1.65	-4.88	0.54	20.66	0.60	19.68	21.65	0.0	0.0	0.0	0.0
0.0	T	-16.94	1.01	-18.60	-15.29	-2.09	1.48	-4.52	0.34	20.77	0.76	19.53	22.01	0.26	0.26	0.26	0.26
F	0.20	-17.04	1.11	-18.86	-15.22	-2.28	1.57	-4.85	0.30	20.71	0.76	19.47	21.96	0.22	0.22	0.22	0.22
O	0.30	-17.00	1.14	-18.87	-15.13	-2.06	1.58	-5.06	0.13	20.64	0.77	19.43	21.84	0.21	0.21	0.21	0.21
E	0.40	-17.24	1.22	-19.24	-15.94	-2.47	1.51	-4.94	0.01	20.51	0.77	19.35	21.88	0.24	0.24	0.24	0.24
W	0.50	-17.17	1.12	-19.00	-15.33	-2.32	1.50	-4.79	0.14	20.38	0.76	19.31	21.81	0.17	0.17	0.17	0.17
A	0.60	-17.10	1.14	-18.98	-15.23	-2.41	1.48	-4.84	0.02	20.64	0.76	19.36	21.86	0.12	0.12	0.12	0.12
R	0.70	-17.06	1.00	-18.69	-15.42	-2.51	1.52	-5.05	0.02	20.59	0.78	19.27	21.81	0.13	0.13	0.13	0.13
D	0.80	-17.07	1.04	-18.77	-15.36	-2.55	1.52	-5.05	0.05	20.59	0.76	19.34	21.84	0.07	0.07	0.07	0.07
N	0.90	-17.12	1.17	-19.03	-15.21	-2.56	1.74	-5.41	0.30	20.58	0.74	19.36	21.79	0.06	0.06	0.06	0.06
1.00	0.00	-17.19	1.07	-18.94	-15.44	-2.47	1.58	-5.06	0.11	20.52	0.80	19.31	21.94	0.11	0.11	0.11	0.11
0.0	0.0	-17.19	1.07	-18.94	-15.44	-2.47	1.58	-5.06	0.11	20.52	0.80	19.31	21.94	0.0	0.0	0.0	0.0
0.10	0.10	-16.95	0.98	-18.56	-15.33	-2.41	1.68	-5.17	0.35	20.51	0.82	19.26	21.94	0.25	0.25	0.25	0.25
0.20	0.20	-17.08	1.07	-18.84	-15.32	-2.38	1.54	-4.91	0.15	20.54	0.82	19.29	21.99	0.14	0.14	0.14	0.14
O	0.30	-17.04	1.08	-18.80	-15.27	-2.28	1.51	-4.75	0.13	20.54	0.84	19.27	22.02	0.11	0.11	0.11	0.11
E	0.40	-17.05	1.16	-18.95	-15.15	-2.24	1.45	-4.62	0.13	20.54	0.82	19.30	21.97	0.04	0.04	0.04	0.04
T	0.50	-16.97	0.96	-18.48	-15.48	-2.23	1.51	-4.71	0.26	20.58	0.76	19.44	21.92	0.09	0.09	0.09	0.09
U	0.60	-17.08	1.07	-18.83	-15.33	-2.16	1.64	-4.84	0.52	20.59	0.68	19.57	21.81	0.13	0.13	0.13	0.13
R	0.70	-16.96	0.94	-18.51	-15.41	-2.21	1.51	-4.70	0.27	20.58	0.68	19.53	21.80	0.14	0.14	0.14	0.14
N	0.80	-17.06	1.04	-18.76	-15.36	-2.19	1.52	-4.68	0.31	20.51	0.66	19.53	21.69	0.13	0.13	0.13	0.13
0.90	0.90	-17.01	1.08	-18.62	-15.39	-2.20	1.62	-4.66	0.46	20.54	0.73	19.45	21.83	0.07	0.07	0.07	0.07
1.00	-17.16	1.09	-18.95	-15.38	-2.17	1.65	-4.88	0.54	20.56	0.60	19.68	21.65	0.16	0.16	0.16	0.16	

LANDMARK - CERVICALE

(2)

TIME	SAMPLE	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	S, N	-18.39	0.72	-19.57	-17.20	-0.15	1.83	-3.15	2.84	13.36	0.69	12.23	14.49	0.0	0.0	0.0	0.0
0.0	T	-18.04	0.49	-18.85	-17.24	-0.17	1.56	-2.14	2.40	13.32	0.70	12.18	14.47	0.35	0.35	0.35	0.35
F	0.20	-18.01	0.66	-19.09	-16.94	-0.26	1.58	-2.84	2.32	13.32	0.76	12.08	14.56	0.44	0.44	0.44	0.44
O	0.30	-18.32	0.58	-19.25	-17.40	-0.51	1.63	-3.19	2.16	13.27	0.75	12.04	14.50	0.40	0.40	0.40	0.40
R	0.40	-18.26	0.58	-19.21	-17.31	-0.29	1.44	-2.66	2.08	13.34	0.73	12.14	14.55	0.24	0.24	0.24	0.24
W	0.50	-18.25	0.50	-19.07	-17.44	0.01	1.56	-2.55	2.57	13.38	0.70	12.24	14.52	0.30	0.30	0.30	0.30
A	0.60	-18.20	0.55	-19.10	-17.30	-0.12	1.57	-2.50	2.46	13.41	0.63	12.37	14.45	0.14	0.14	0.14	0.14
R	0.70	-18.23	0.68	-19.35	-17.12	-0.33	1.40	-2.63	1.97	13.49	0.73	12.28	14.69	0.22	0.22	0.22	0.22
D	0.80	-18.09	0.66	-19.18	-17.01	0.03	1.74	-2.82	2.88	13.57	0.81	12.35	15.00	0.43	0.43	0.43	0.43
N	0.90	-18.12	0.55	-19.02	-17.23	-0.20	1.50	-2.66	2.25	13.33	0.66	12.25	14.42	0.41	0.41	0.41	0.41
1.00	0.00	-18.10	0.52	-18.95	-17.25	-0.02	1.60	-2.64	2.60	13.28	0.80	11.97	14.58	0.19	0.19	0.19	0.19
0.0	0.0	-18.10	0.52	-18.95	-17.25	-0.02	1.60	-2.64	2.60	13.28	0.80	11.97	14.58	0.0	0.0	0.0	0.0
0.10	0.20	-18.35	0.45	-19.09	-17.61	-0.09	1.35	-2.30	2.19	13.26	0.70	12.12	14.41	0.20	0.20	0.20	0.20
R	0.30	-18.01	0.71	-19.17	-16.85	-0.03	1.54	-2.55	2.49	13.33	0.70	12.18	14.66	0.41	0.41	0.41	0.41
E	0.40	-17.95	0.46	-18.71	-17.19	-0.35	1.45	-2.73	2.02	13.32	0.67	12.22	14.42	0.33	0.33	0.33	0.33
T	0.50	-18.19	0.66	-19.28	-17.11	-0.40	1.55	-2.94	2.14	13.35	0.64	12.36	14.34	0.25	0.25	0.25	0.25
U	0.60	-18.25	0.52	-19.11	-17.60	-0.27	1.72	-3.09	2.56	13.63	0.85	12.23	15.02	0.31	0.31	0.31	0.31
R	0.70	-18.19	0.44	-18.91	-17.47	-0.30	1.42	-2.63	2.03	13.41	0.65	12.34	14.47	0.23	0.23	0.23	0.23
N	0.80	-18.33	0.66	-19.40	-17.25	-0.20	1.43	-2.55	2.15	13.35	0.60	12.37	14.34	0.18	0.18	0.18	0.18
O	0.90	-18.20	0.53	-19.07	-17.34	-0.12	1.52	-2.62	2.37	13.43	0.71	12.26	14.59	0.16	0.16	0.16	0.16
1.00	0.00	-18.39	0.72	-19.57	-17.20	-0.15	1.83	-3.15	2.84	13.36	0.69	12.23	14.49	0.20	0.20	0.20	0.20

LANDMARK - SUPRASTERNAL (3)

TIME	SAMPLE SIZE, N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE				
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT
0.0	7	-14.54	0.78	-15.82	-13.26	-0.28	0.57	-1.22	0.66	14.48	0.25	14.89	0.0	0.0	0.0	0.0
F 0.10	7	-16.42	0.58	-15.37	-13.47	-0.28	0.51	-1.11	0.56	14.59	0.29	14.12	15.07	0.16	0.16	0.16
R 0.20	7	-14.38	0.56	-15.30	-13.47	-0.40	0.58	-1.35	0.55	14.49	0.54	13.60	15.38	0.17	0.17	0.33
O 0.30	7	-14.36	0.61	-15.36	-13.36	-0.59	0.64	-1.65	0.46	14.00	0.53	13.53	15.27	0.21	0.21	0.54
R 0.40	7	-14.56	0.58	-15.51	-13.62	-0.45	0.45	-1.37	0.47	14.33	0.19	14.02	14.65	0.26	0.26	0.79
R 0.50	7	-14.43	0.69	-15.56	-13.31	-0.19	0.63	-1.22	0.83	14.32	0.30	13.83	14.81	0.29	0.29	1.09
A 0.60	7	-14.46	0.63	-15.50	-13.43	-0.42	0.63	-1.45	0.61	14.42	0.28	13.96	14.89	0.25	0.25	1.34
R 0.70	7	-14.36	0.66	-15.44	-13.27	-0.45	0.45	-1.35	0.45	14.31	0.43	13.61	15.01	0.16	0.16	1.50
D 0.80	7	-14.48	0.69	-15.62	-13.35	-0.49	0.49	-1.28	0.49	14.40	0.32	13.87	14.93	0.16	0.16	1.65
O 0.90	7	-14.51	0.81	-15.83	-13.18	-0.48	0.52	-1.33	0.37	14.35	0.39	13.71	15.00	0.05	0.05	1.70
1.00	7	-14.42	0.59	-15.39	-13.45	-0.55	0.65	-1.62	0.53	14.32	0.43	13.61	15.02	0.11	0.11	1.82
0.0	7	-14.42	0.59	-15.39	-13.45	-0.55	0.65	-1.62	0.53	14.32	0.43	13.61	15.02	0.0	0.0	0.0
0.10	7	-14.44	0.72	-15.62	-13.26	-0.30	0.72	-1.48	0.88	14.40	0.34	13.85	14.95	0.26	0.26	0.26
R 0.20	7	-14.48	0.72	-15.66	-13.29	-0.34	0.48	-1.13	0.45	14.41	0.40	13.75	15.07	0.31	0.31	0.31
R 0.30	7	-14.36	0.65	-15.43	-13.29	-0.35	0.51	-1.19	0.49	14.43	0.50	13.60	15.26	0.12	0.12	0.43
E 0.40	7	-14.37	0.67	-15.46	-13.27	-0.40	0.50	-1.23	0.42	14.45	0.35	13.87	15.03	0.06	0.06	0.49
T 0.50	7	-14.40	0.73	-15.60	-13.20	-0.40	0.53	-1.26	0.46	14.44	0.44	13.72	15.15	0.52	0.52	0.52
U 0.60	7	-14.32	0.72	-15.50	-13.14	-0.35	0.60	-1.34	0.64	14.45	0.34	13.89	15.00	0.10	0.10	0.62
R 0.70	7	-14.34	0.64	-15.39	-13.28	-0.42	0.48	-1.22	0.37	14.48	0.39	13.84	15.12	0.08	0.08	0.71
N 0.80	7	-14.38	0.71	-15.54	-13.22	-0.32	0.61	-1.32	0.58	14.48	0.37	13.87	15.10	0.11	0.11	0.82
O 0.90	7	-14.40	0.85	-15.79	-13.01	-0.15	0.58	-1.10	0.80	14.51	0.40	13.86	15.16	0.18	0.18	0.99
1.00	7	-14.54	0.78	-15.82	-13.26	-0.28	0.57	-1.22	0.66	14.48	0.25	14.08	14.89	0.19	0.19	1.19

LANDMARK - RT ACRROMION (4)

TIME	SAMPLE SIZE, N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE				
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT
0.0	7	-17.45	1.58	-20.04	-14.85	-8.40	1.52	-10.90	-5.90	11.63	0.67	10.54	12.72	0.0	0.0	0.0
F 0.10	7	-17.67	0.50	-18.49	-16.86	-7.87	0.78	-9.14	-6.59	11.64	0.65	10.57	12.71	0.58	0.58	0.58
R 0.20	7	-17.97	0.42	-18.66	-17.29	-7.76	0.71	-8.92	-6.60	11.58	0.69	10.44	12.71	0.32	0.32	0.90
O 0.30	7	-18.04	0.43	-18.74	-17.34	-7.90	0.73	-9.10	-6.70	11.42	0.74	10.21	12.64	0.21	0.21	1.11
R 0.40	7	-18.19	0.38	-18.82	-17.57	-7.92	0.86	-9.32	-6.51	11.34	0.77	10.08	12.60	0.17	0.17	1.29
W 0.50	7	-18.28	0.46	-19.03	-17.53	-7.66	0.87	-9.09	-6.23	11.23	0.63	10.26	12.33	0.28	0.28	1.56
A 0.60	7	-18.19	0.62	-19.21	-17.18	-7.77	0.72	-8.95	-6.58	11.24	0.67	10.15	12.34	0.15	0.15	1.71
R 0.70	7	-18.10	0.56	-19.01	-17.19	-7.82	0.63	-8.85	-6.79	11.21	0.69	10.09	12.34	0.12	0.12	1.82
D 0.80	7	-18.04	0.55	-18.94	-17.14	-7.87	0.74	-9.09	-6.66	11.35	0.78	10.06	12.65	0.16	0.16	1.99
O 0.90	6	-18.19	0.43	-18.89	-17.48	-8.05	0.73	-9.26	-6.85	11.22	0.78	9.94	12.49	0.27	0.27	2.26
1.00	6	-18.10	0.52	-18.95	-17.26	-7.91	0.68	-9.02	-6.81	11.25	0.74	10.04	12.46	0.17	0.17	2.42
0.0	6	-18.10	0.52	-18.95	-17.26	-7.91	0.68	-9.02	-6.81	11.25	0.74	10.04	12.46	0.0	0.0	0.0
0.10	6	-18.02	0.40	-18.68	-17.36	-8.02	0.91	-9.51	-6.52	11.25	0.79	9.95	12.54	0.13	0.13	0.13
O 20	7	-17.93	0.56	-18.81	-16.99	-7.88	0.61	-8.89	-6.87	11.33	0.69	10.20	12.46	0.20	0.20	0.33
R 30	7	-17.74	0.60	-18.72	-16.75	-7.77	0.82	-9.10	-6.43	11.44	0.77	10.18	12.70	0.22	0.22	0.56
E 40	7	-17.73	0.61	-18.73	-16.74	-7.86	0.69	-8.99	-6.13	11.53	0.79	10.23	12.83	0.13	0.13	0.68
T 50	7	-17.56	0.57	-18.49	-16.64	-7.99	0.65	-9.06	-6.91	11.59	0.77	10.33	12.86	0.22	0.22	0.91
U 60	7	-17.32	0.69	-18.46	-16.19	-8.15	0.85	-9.44	-6.66	11.52	0.72	10.33	12.70	0.26	0.26	1.17
R 70	7	-17.09	0.69	-18.22	-15.97	-8.04	0.78	-9.32	-6.76	11.52	0.67	10.52	12.72	0.25	0.25	1.42
N 80	7	-17.01	0.73	-18.22	-15.81	-8.08	0.72	-9.27	-6.89	11.51	0.64	10.56	12.65	0.09	0.09	1.51
O 90	7	-16.82	0.64	-17.87	-15.76	-8.06	0.78	-9.33	-6.78	11.53	0.67	10.54	12.72	0.20	0.20	1.71
1.00	7	-17.45	1.58	-20.04	-14.85	-8.40	1.52	-10.90	-5.90	11.53	0.67	10.54	12.72	0.72	0.72	2.43

LANDMARK - RT GRIP CENTER (16)

TIME	SAMPLE SIZE,N	CO-ORDINATE-----X					CO-ORDINATE-----Y					CO-ORDINATE-----Z					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	6.43	0.63	5.39	7.46	-11.18	0.18	-11.48	-10.89	4.55	0.31	4.03	5.06	0.0	0.0	0.0	0.0
0.10	7	4.28	1.18	2.34	6.21	-10.75	1.39	-13.03	-8.46	6.79	1.75	3.92	9.66	3.14	3.14	3.14	3.14
F 0.20	7	1.28	2.11	2.19	4.74	-9.91	2.77	-14.77	-5.36	10.23	2.80	5.64	14.82	4.64	7.78	7.78	7.78
O 0.30	7	-2.49	2.41	-6.45	1.47	-9.65	3.84	-15.95	-3.36	13.06	3.28	7.68	18.43	4.72	12.50	12.50	12.50
O 0.40	7	-5.80	2.22	-9.44	-2.16	-10.54	3.72	-16.64	-4.44	14.80	2.63	10.48	19.12	3.84	16.34	16.34	16.34
R 0.50	7	-7.13	1.64	-9.79	-4.42	-11.58	1.58	-16.24	-6.93	15.38	1.77	12.47	18.28	1.77	18.11	18.11	18.11
W 0.50	7	-7.24	1.26	-9.30	-5.17	-12.12	1.68	-15.48	-9.97	15.24	1.09	13.45	17.02	1.15	19.26	19.26	19.26
A 0.60	7	-6.41	0.98	-8.01	-4.81	-13.74	0.95	-15.29	-12.18	14.48	0.66	13.40	15.57	1.51	20.77	20.77	20.77
R 0.70	7	-5.93	0.72	-7.10	-4.75	-14.53	0.89	-15.99	-13.08	14.14	0.50	13.31	14.97	0.99	21.77	21.77	21.77
O 0.80	7	-5.69	0.55	-6.59	-4.78	-14.34	0.84	-15.71	-12.97	14.16	0.49	13.35	14.95	0.31	22.07	22.07	22.07
0.90	7	-6.17	1.05	-7.89	-4.44	-13.49	1.46	-15.89	-11.09	14.29	0.62	13.28	15.31	0.99	23.06	23.06	23.06
1.00	7	0.0	7	-6.17	1.05	-7.89	-4.44	-13.49	1.46	-15.89	-11.09	14.29	0.62	13.28	15.31	0.0	0.0
0.10	7	-6.79	0.67	-7.88	-5.69	-11.70	1.78	-14.62	-8.78	14.84	0.68	13.73	15.96	1.97	1.97	1.97	1.97
R 0.20	7	-6.52	1.02	-8.19	-4.85	-9.94	1.35	-12.15	-7.73	15.18	1.22	13.18	17.17	1.82	3.79	3.79	3.79
R 0.30	7	-4.44	1.88	-7.52	-1.35	-8.88	-10.23	-7.53	14.60	1.49	12.16	17.03	2.41	6.20	6.20	6.20	6.20
E 0.40	7	-0.68	2.41	-4.63	3.27	-9.35	1.03	-11.04	-7.65	12.65	2.31	8.82	16.38	4.28	10.48	10.48	10.48
T 0.50	7	2.94	2.87	-1.78	7.65	-10.38	1.82	-13.37	-7.39	9.86	2.66	5.49	14.23	4.65	15.13	15.13	15.13
T 0.60	7	4.02	1.01	2.36	5.68	-10.78	1.20	-12.75	-8.82	8.08	1.64	5.40	10.76	2.12	17.25	17.25	17.25
R 0.70	7	5.09	0.84	3.70	6.47	-11.07	0.78	-12.34	-9.79	6.40	1.22	4.41	8.41	2.01	19.26	19.26	19.26
N 0.80	7	5.78	0.81	4.45	7.10	-11.18	0.49	-11.98	-10.38	5.51	4.11	6.91	1.14	20.40	20.40	20.40	20.40
O 0.90	7	6.14	0.68	5.03	7.25	-11.19	0.35	-11.76	-10.61	5.07	0.53	4.19	5.94	0.57	20.97	20.97	20.97
1.00	7	6.43	5.39	7.46	-11.18	0.18	-11.48	-10.59	4.55	0.31	4.03	5.06	0.59	21.56	21.56	21.56	21.56

LANDMARK - RT TROCHANTER (18)

TIME	SAMPLE SIZE,N	CO-ORDINATE-----X					CO-ORDINATE-----Y					CO-ORDINATE-----Z					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	2.16	0.88	0.72	3.61	-6.86	0.80	-8.18	-5.55	3.17	0.86	1.75	4.59	0.0	0.0	0.0	0.0
0.10	7	2.05	0.74	0.84	3.26	-7.27	0.59	-8.23	-6.30	3.05	0.76	1.80	4.30	0.44	0.44	0.44	0.44
F 0.20	7	1.90	0.73	0.70	3.11	-7.32	0.46	-8.07	-6.57	2.98	0.68	1.86	4.10	0.17	0.61	0.17	0.61
O 0.30	7	1.83	0.92	0.33	3.34	-7.40	-6.50	-8.29	-6.50	2.94	0.61	1.94	3.93	0.11	0.72	0.11	0.72
R 0.40	7	2.02	1.00	0.38	3.67	-7.31	0.74	-8.53	-6.10	2.87	0.54	1.99	3.75	0.22	0.94	0.22	0.94
W 0.50	7	2.14	0.93	0.61	3.67	-7.22	0.68	-8.34	-6.11	2.88	0.63	1.85	3.91	0.15	1.09	0.15	1.09
A 0.60	7	2.07	0.84	0.69	3.45	-7.32	0.65	-8.39	-6.26	2.92	0.71	1.76	4.08	0.13	1.22	0.13	1.22
R 0.70	7	2.09	0.84	0.71	3.46	-7.45	0.39	-8.10	-6.81	2.97	0.75	1.74	4.20	0.14	1.36	0.14	1.36
D 0.80	7	1.88	0.69	0.74	3.02	-7.41	0.57	-8.35	-6.47	2.84	0.69	1.71	3.97	0.25	1.61	0.25	1.61
O 0.90	7	1.86	0.69	0.73	2.98	-7.35	0.65	-8.42	-6.29	2.87	0.74	1.66	4.07	0.07	1.68	0.07	1.68
1.00	7	1.86	0.71	0.68	3.03	-7.38	0.36	-7.97	-6.80	2.93	0.74	1.72	4.14	0.07	1.75	0.07	1.75
0.0	7	1.86	0.71	0.68	3.03	-7.38	0.36	-7.97	-6.80	2.93	0.74	1.72	4.14	0.0	0.0	0.0	0.0
0.10	7	2.09	0.97	0.63	7.34	-8.38	-8.38	-6.30	-6.30	2.98	0.73	1.78	4.18	0.25	0.25	0.25	0.25
R 0.30	7	2.10	1.11	0.28	3.93	-7.29	0.66	-8.37	-6.22	2.91	0.73	1.71	4.10	0.08	0.33	0.08	0.33
E 0.40	7	2.12	0.92	0.61	3.63	-7.22	0.62	-8.24	-6.19	2.96	0.72	1.78	4.14	0.0	0.43	0.0	0.43
T 0.50	7	1.91	0.84	0.53	3.29	-7.38	0.35	-7.95	-6.80	2.98	0.68	1.87	4.09	0.26	0.69	0.26	0.69
U 0.60	7	1.78	1.10	0.02	3.57	-7.27	0.63	-8.30	-6.24	2.87	0.61	1.84	4.12	0.33	1.02	0.33	1.02
R 0.70	7	1.98	0.81	0.65	3.31	-7.33	0.54	-8.21	-6.45	2.89	0.61	1.87	3.88	0.19	1.21	0.19	1.21
N 0.80	7	2.45	1.02	0.78	4.13	-7.57	1.24	-9.60	-5.54	2.77	0.57	1.83	3.71	0.21	1.43	0.21	1.43
O 0.90	7	1.93	1.03	0.25	3.62	-7.06	0.66	-8.14	-5.98	2.70	0.69	1.77	4.02	0.74	2.71	0.74	2.71
2.16	7	2.16	0.88	0.72	3.61	-6.86	0.80	-8.18	-5.55	2.95	0.86	1.75	4.59	0.41	3.11	0.41	3.11

LANDMARK - RT KNEE TOP (20)

TIME	SAMPLE SIZE, N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	95 PCT	5 PCT	MEAN	SE	95 PCT	5 PCT	MEAN	SE	95 PCT	5 PCT	MEAN	SE	95 PCT	
T	0.0	17.48	0.91	15.98	18.98	-4.87	1.75	-7.74	-1.99	10.04	2.06	6.66	13.42	0.0	0.0	0.0	
F	0.10	17.69	0.85	16.29	19.03	-5.06	1.46	-7.44	-2.67	10.39	2.13	6.59	13.59	0.29	0.29	0.29	
R	0.20	17.71	0.90	16.23	19.19	-5.04	1.44	-7.40	-2.68	10.38	2.13	6.59	13.57	0.03	0.32	0.32	
D	0.30	17.74	0.91	16.25	19.23	-5.05	1.38	-7.30	-2.79	10.37	2.10	6.62	13.51	0.03	0.35	0.35	
R	0.40	17.63	0.93	16.11	19.15	-5.17	1.38	-7.43	-2.91	10.07	2.10	6.62	13.51	0.17	0.52	0.52	
W	0.50	17.64	1.02	15.97	19.12	-5.02	1.35	-7.23	-2.81	10.38	2.09	6.66	13.50	0.15	0.68	0.68	
A	0.60	17.62	0.95	16.06	19.19	-5.12	1.31	-7.26	-2.97	10.19	2.16	6.66	13.73	0.15	0.83	0.83	
R	0.70	17.72	0.98	16.11	19.32	-5.11	1.39	-7.38	-2.83	10.37	2.13	6.58	13.57	0.15	0.98	0.98	
D	0.80	17.71	0.98	16.11	19.31	-5.13	1.34	-7.33	-2.93	10.11	2.13	6.62	13.59	0.04	1.02	1.02	
N	0.90	17.64	0.92	16.12	19.16	-5.19	1.43	-7.53	-2.85	10.11	2.11	6.66	13.56	0.09	1.11	1.11	
1.00	17.71	0.93	16.18	19.23	-5.05	1.47	-7.45	-2.65	10.12	2.11	6.67	13.57	0.15	1.26	1.26		
0.0	7	17.71	0.93	16.18	19.23	-5.05	1.47	-7.45	-2.65	10.12	2.11	6.67	13.57	0.0	0.0	0.0	
0.10	7	17.73	0.94	16.18	19.27	-4.99	1.42	-7.31	-2.67	10.15	2.08	6.73	13.56	0.07	0.07	0.07	
0.20	7	17.69	0.93	16.16	19.22	-4.96	1.37	-7.21	-2.72	10.15	2.11	6.68	13.61	0.05	0.12	0.12	
R	0.30	7	17.61	0.96	16.03	-4.92	1.40	-7.22	-2.62	10.10	2.15	6.57	13.63	0.10	0.22	0.22	
E	0.40	7	17.64	1.02	15.97	19.30	-5.03	1.38	-7.30	-2.77	10.16	2.13	6.56	13.55	0.12	0.34	0.34
T	0.50	7	17.68	0.97	16.09	19.28	-4.81	1.40	-7.10	-2.52	10.11	2.09	6.68	13.55	0.24	0.58	0.58
U	0.60	7	17.62	0.94	16.07	19.17	-4.78	1.55	-7.32	-2.24	10.06	2.08	6.64	13.47	0.09	0.67	0.67
R	0.70	7	17.63	0.94	16.10	19.17	-4.89	1.49	-7.33	-2.44	10.27	2.06	6.67	13.44	0.11	0.78	0.78
N	0.80	7	17.65	0.97	16.07	19.23	-4.77	1.65	-7.48	-2.06	10.37	2.11	6.60	13.53	0.12	0.90	0.90
O	0.90	7	17.70	0.91	16.21	19.19	-4.85	1.65	-7.56	-2.14	10.14	2.13	6.61	13.61	0.11	1.01	1.01
1.00	7	17.48	0.91	15.98	18.98	-4.87	1.75	-7.74	-1.99	10.04	2.06	6.66	13.42	0.23	1.24	1.24	

LANDMARK - RT SHOULDER CENTER (22)

TIME	SAMPLE SIZE, N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)				
		MEAN	SE	95 PCT	5 PCT	MEAN	SE	95 PCT	5 PCT	MEAN	SE	95 PCT	5 PCT	MEAN	SE	95 PCT
T	0.0	-14.37	0.74	-15.59	-13.15	-8.19	0.70	-9.34	-7.03	11.22	0.38	10.60	11.84	0.0	0.0	0.0
F	0.10	-15.03	0.51	-15.86	-14.20	-8.06	0.80	-9.37	-6.75	11.12	0.39	10.49	11.76	0.68	0.68	0.68
R	0.20	-15.30	0.53	-16.18	-14.43	-8.08	0.94	-9.63	-6.53	11.14	0.43	10.40	11.82	0.27	0.95	0.95
O	0.30	-15.37	0.56	-16.28	-14.46	-8.08	0.92	-9.68	-6.49	11.10	0.56	10.38	12.03	0.06	1.02	1.02
R	0.40	-15.73	0.52	-16.58	-14.89	-8.13	1.02	-9.80	-6.66	11.07	0.53	10.20	11.94	0.37	1.38	1.38
W	0.50	-16.03	0.56	-16.95	-15.11	-7.96	1.13	-9.81	-6.12	11.13	0.58	10.18	12.08	0.35	1.73	1.73
A	0.60	-15.90	0.83	-17.26	-14.53	-8.18	0.94	-9.72	-6.64	11.12	0.40	10.47	11.76	0.26	1.99	1.99
R	0.70	-15.93	0.53	-16.66	-14.93	-8.29	0.95	-9.53	-6.53	10.96	0.34	10.41	11.51	0.21	2.20	2.20
D	0.80	-15.74	0.63	-16.76	-14.71	-8.33	0.96	-9.91	-6.75	10.94	0.36	10.32	11.50	0.09	2.29	2.29
O	0.90	-15.68	0.49	-16.48	-14.88	-8.50	1.02	-10.18	-6.82	10.96	0.33	10.42	11.50	0.19	2.48	2.48
1.00	7	-15.48	0.79	-16.77	-14.18	-8.25	0.58	-9.20	-7.30	11.07	0.40	10.41	11.74	0.34	2.82	2.82
0.0	7	-15.48	0.79	-16.77	-14.18	-8.25	0.58	-9.20	-7.30	11.07	0.40	10.41	11.74	0.0	0.0	0.0
0.10	7	-15.38	0.54	-16.26	-14.49	-8.31	1.06	-10.05	-6.58	11.04	0.47	10.26	11.81	0.12	0.12	0.12
O	0.20	-15.41	0.71	-16.58	-14.24	-8.17	0.94	-9.71	-6.63	11.05	0.41	10.38	11.72	0.15	0.27	0.27
R	0.30	-15.22	0.79	-16.53	-13.92	-8.07	0.83	-9.43	-6.71	11.11	0.41	10.43	11.79	0.22	0.49	0.49
E	0.40	-15.04	0.80	-16.35	-13.72	-8.11	0.78	-9.39	-6.82	11.13	0.44	10.41	11.85	0.19	0.68	0.68
T	0.50	-14.96	0.77	-16.23	-13.69	-8.07	0.92	-9.58	-6.56	11.15	0.46	10.40	11.90	0.77	0.77	0.77
U	0.60	-14.73	0.73	-15.93	-13.53	-8.24	0.99	-9.87	-6.61	11.27	0.41	10.39	11.75	0.29	1.06	1.06
R	0.70	-14.52	0.88	-15.96	-13.07	-8.20	0.92	-9.70	-6.69	11.16	0.51	10.33	12.00	0.24	1.30	1.30
N	0.80	-14.23	0.77	-15.50	-12.97	-8.16	0.91	-9.65	-6.67	11.12	0.41	10.45	11.87	0.29	1.59	1.59
O	0.90	-14.14	0.63	-15.18	-13.10	-8.18	0.77	-9.45	-6.92	11.15	0.44	10.43	11.87	0.10	1.69	1.69
1.00	7	-14.37	0.74	-15.59	-13.15	-8.19	0.70	-9.34	-7.03	11.22	0.38	10.60	11.84	0.25	1.94	1.94

LANDMARK - RT ELBOW CENTER (24)

TIME	SAMPLE SIZE,N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	7	-6.31	0.51	-7.15	-5.47	-10.33	0.83	-11.69	-8.98	4.73	1.28	2.63	6.83	0.0	0.0	0.0	0.0
O.0	7	-7.73	0.84	-9.10	-6.35	-10.96	1.16	-12.87	-9.05	4.38	1.18	2.45	6.31	1.59	1.59	1.59	1.59
F	0.20	-8.52	1.08	-10.29	-6.75	-11.23	1.62	-13.89	-8.58	4.24	1.09	2.45	6.02	0.85	2.44	2.44	2.44
O	0.30	-8.82	1.19	-10.77	-6.87	-11.32	1.81	-14.29	-8.35	4.20	1.18	2.26	6.14	0.31	2.75	2.75	2.75
R	0.40	-9.11	1.07	-10.87	-7.36	-11.34	1.93	-14.38	-8.20	4.20	1.25	2.16	6.25	0.30	3.05	3.05	3.05
W	0.50	-9.27	1.09	-11.05	-7.49	-11.33	1.93	-14.50	-8.17	4.04	1.18	2.10	5.98	0.22	3.27	3.27	3.27
A	0.60	-9.68	1.18	-11.62	-7.74	-11.54	1.88	-14.63	-8.46	3.77	1.06	2.04	5.50	0.53	3.81	3.81	3.81
R	0.70	-9.68	1.29	-11.80	-7.56	-11.60	1.68	-14.37	-8.84	3.49	0.88	2.05	4.93	0.28	4.09	4.09	4.09
D	0.80	-9.75	1.43	-12.10	-7.40	-11.71	1.79	-14.64	-8.78	3.53	0.95	1.98	5.08	0.13	4.22	4.22	4.22
O	0.90	-9.89	1.49	-12.32	-7.45	-11.79	1.78	-14.71	-8.88	3.47	0.89	2.01	4.94	0.17	4.39	4.39	4.39
1.00	7	-9.84	1.33	-12.02	-7.66	-11.57	1.76	-14.47	-8.68	3.42	0.98	1.82	5.02	0.23	4.62	4.62	4.62
0.0	7	-9.84	1.33	-12.02	-7.66	-11.57	1.76	-14.47	-8.68	3.42	0.98	1.82	5.02	0.0	0.0	0.0	0.0
0.10	7	-9.61	1.28	-11.72	-7.51	-11.46	1.82	-14.44	-8.48	3.51	0.89	2.05	4.96	0.27	0.27	0.27	0.27
0.20	7	-9.45	1.17	-11.36	-7.53	-11.55	1.64	-14.24	-8.86	3.19	0.86	2.19	5.01	0.21	0.47	0.47	0.47
R	0.30	-9.20	1.08	-10.97	-7.44	-11.48	1.68	-14.24	-8.73	3.74	0.94	2.20	5.28	0.29	0.77	0.77	0.77
E	0.40	-8.92	0.73	-10.12	-7.72	-11.44	1.62	-14.10	-8.78	3.86	0.94	2.31	5.41	0.31	1.07	1.07	1.07
T	0.50	-8.37	0.59	-9.33	-7.41	-11.04	1.48	-13.46	-8.62	3.82	0.88	2.39	5.26	0.68	1.75	1.75	1.75
U	0.60	-7.93	0.31	-8.43	-7.42	-10.97	1.12	-12.81	-9.13	3.96	1.05	2.24	5.68	0.47	2.22	2.22	2.22
R	0.70	-7.60	0.59	-8.37	-6.42	-10.88	0.97	-12.48	-9.29	4.09	1.12	2.25	5.93	0.55	2.78	2.78	2.78
N	0.80	-6.85	0.76	-8.10	-5.61	-10.62	0.86	-12.03	-9.21	4.32	1.22	2.32	6.31	0.65	3.42	3.42	3.42
O	0.90	-6.42	0.77	-7.68	-5.15	-10.44	0.84	-11.82	-9.06	4.50	1.32	2.43	6.76	0.55	3.97	3.97	3.97
1.00	7	-6.31	0.51	-7.15	-5.47	-10.33	0.83	-11.69	-8.98	4.73	1.28	2.63	6.83	0.20	4.17	4.17	4.17

LANDMARK - RT WRIST CENTER (26)

TIME	SAMPLE SIZE,N	(- - - X - CO-ORDINATE - - -)					(- - - Y - CO-ORDINATE - - -)					(- - - Z - CO-ORDINATE - - -)					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
T	6	2.98	0.57	2.04	3.92	-1C.40	0.43	-11.11	-9.69	4.33	0.64	3.29	5.37	0.0	0.0	0.0	0.0
O.0	6	0.78	1.34	-1.41	2.97	-10.44	1.36	-12.67	-8.21	6.43	1.22	4.43	8.44	3.04	3.04	3.04	3.04
F	0.20	-1.41	1.61	-4.05	1.23	-10.03	2.02	-13.67	-6.40	8.90	2.16	5.35	12.45	3.33	6.37	6.37	6.37
O	0.30	-4.25	1.86	-7.31	-1.20	-9.90	2.95	-14.73	-5.06	10.95	2.72	6.49	15.40	3.50	9.87	9.87	9.87
R	0.40	-6.81	2.10	-10.25	-3.37	-10.40	2.92	-15.20	-5.61	12.14	2.24	8.47	15.80	2.87	12.74	12.74	12.74
W	0.50	-7.79	-7.79	-11.02	-4.48	-10.92	2.34	-14.76	-7.07	12.38	1.44	10.02	14.13	1.13	13.87	13.87	13.87
A	0.60	-8.18	1.43	-10.53	-5.83	-11.73	1.72	-14.56	-8.91	12.23	0.85	10.84	13.62	0.92	14.79	14.79	14.79
R	0.70	-8.05	0.98	-9.66	-6.45	-12.60	1.30	-14.74	-10.47	11.80	0.63	10.76	12.84	0.98	15.77	15.77	15.77
D	0.80	-7.86	0.82	-9.21	-6.51	-13.08	1.20	-15.05	-11.12	11.72	0.43	11.01	12.42	0.52	16.30	16.30	16.30
O	0.90	-7.63	0.60	-8.61	-6.66	-13.22	1.11	-15.04	-11.39	11.64	0.39	10.99	12.29	0.28	16.57	16.57	16.57
1.00	7	-7.52	0.33	-8.06	-6.99	-12.58	1.40	-14.87	-10.28	11.55	0.67	10.45	12.64	0.65	17.23	17.23	17.23
0.0	7	-7.52	0.33	-8.06	-6.99	-12.58	1.40	-14.87	-10.28	11.55	0.67	10.45	12.64	0.0	0.0	0.0	0.0
0.10	7	-7.60	0.62	-8.62	-6.57	-11.29	1.24	-13.33	-9.26	11.77	0.66	10.69	12.84	1.30	1.30	1.30	1.30
O.20	7	-6.75	1.08	-8.53	-4.98	-10.05	1.04	-11.74	-8.35	11.83	0.94	10.35	13.43	1.51	2.82	2.82	2.82
R	0.30	-4.90	1.34	-7.09	-2.71	-9.03	0.93	-10.56	-7.50	11.55	1.55	14.09	14.09	2.14	4.95	4.95	4.95
E	0.40	-2.79	1.45	-5.17	-0.41	-9.25	0.93	-10.78	-7.72	10.13	1.89	7.03	13.24	2.55	7.51	7.51	7.51
T	0.50	-0.69	1.11	-2.50	1.13	-10.00	1.02	-11.68	-8.32	8.26	1.86	5.21	11.40	2.92	10.42	10.42	10.42
U	0.60	1.05	0.49	0.25	1.85	-10.68	0.74	-11.90	-9.46	6.40	1.47	3.99	8.80	2.63	13.06	13.06	13.06
R	0.70	2.21	0.94	0.67	3.75	-10.89	0.60	-11.87	-9.92	5.20	1.29	2.88	7.12	1.83	14.88	14.88	14.88
N	0.80	2.39	0.69	1.27	3.52	-10.51	0.53	-11.38	-9.64	4.89	0.86	3.48	6.29	0.44	15.32	15.32	15.32
O	0.90	2.95	0.67	1.86	4.05	-10.42	0.45	-11.16	-9.68	4.67	0.67	3.57	5.76	0.61	15.93	15.93	15.93
1.00	6	2.98	0.57	2.04	3.92	-10.40	0.43	-11.11	-9.69	4.33	0.64	3.29	5.37	0.34	16.27	16.27	16.27

MOVEMENT: LEFT HAND MOVES FROM THROTTLE CONTROLLER AT +7.0, +10.0, +5.0 TO HATCH RELEASE CONTROLLER AT -5.0, -13.0, +15.0 AND RETURNS. RIGHT HAND REMAINS AT SIDE-ARM CONTROLLER AT +7.0, -10.0, +5.0.

MOTION NUMBER - 22260
BACK ANGLE - 65

SUB-MOVEMENT	TIME DATA			RANGE
	MEAN	STD DEV		
LEFT FWD	0.69	0.09	0.60 TO 0.80	SECS.
LEFT REV	0.73	0.26	0.50 TO 1.30	SECS.

LANDMARK - NASION

{ 1 }

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-17.35	0.86	-18.76	-15.95	1.64	1.64	-1.83	2.56	20.56	0.76	21.81	0.40	0.0	0.0	0.0	0.0
0.10	F	-17.78	1.13	-19.63	-15.94	-0.86	2.41	-4.81	3.10	20.40	0.58	19.44	21.36	1.78	1.78	1.78	1.78
0.20	R	-17.71	1.40	-20.00	-15.42	-1.59	3.05	-6.59	3.41	20.29	0.57	19.36	21.23	0.75	0.75	0.75	0.75
0.30	E	-17.52	1.30	-19.65	-15.38	-1.64	2.97	-6.51	3.24	20.17	0.59	19.21	21.13	0.24	0.24	0.24	0.24
0.40	D	-17.79	1.27	-19.88	-15.71	-1.93	2.88	-6.65	2.80	20.12	0.70	18.97	21.26	0.40	0.40	0.40	0.40
0.50	N	-18.03	1.26	-20.09	-15.97	-2.27	2.82	-6.88	2.35	20.09	0.83	18.73	21.46	0.42	0.42	0.42	0.42
0.60	A	-17.91	1.23	-19.92	-15.89	-2.25	2.74	-6.74	2.25	20.02	0.78	18.73	21.30	0.15	0.15	0.15	0.15
0.70	R	-17.94	1.40	-20.25	-15.66	-2.48	2.94	-7.31	2.34	20.09	0.64	19.03	21.14	0.25	0.25	0.25	0.25
0.80	D	-17.95	1.32	-20.11	-15.79	-2.57	2.88	-7.30	2.16	20.12	0.79	18.82	21.42	0.09	0.09	0.09	0.09
0.90	O	-17.94	1.35	-20.14	-15.73	-2.6	2.81	-7.37	1.85	20.13	0.85	18.74	21.52	0.19	0.19	0.19	0.19
1.00	P	-18.20	1.32	-20.37	-16.03	-2.98	2.70	-7.42	1.45	20.10	0.78	18.83	21.38	0.35	0.35	0.35	0.35
0.0	T	-18.20	1.32	-20.37	-16.03	-2.98	2.70	-7.42	1.45	20.10	0.78	18.83	21.38	0.0	0.0	0.0	0.0
0.10	F	-17.79	1.19	-19.75	-15.84	-2.21	2.41	-6.16	1.74	20.30	0.74	19.09	21.52	0.90	0.90	0.90	0.90
0.20	R	-17.50	1.05	-19.22	-15.78	-1.35	2.41	-6.16	2.35	20.45	0.73	19.25	21.65	0.92	0.92	0.92	0.92
0.30	E	-17.33	0.80	-18.65	-16.02	-0.95	2.35	-4.81	2.92	20.48	0.75	19.25	21.70	0.43	0.43	0.43	0.43
0.40	D	-17.53	0.78	-18.81	-16.26	-0.60	2.39	-4.52	3.32	20.55	0.76	19.30	21.79	0.41	0.41	0.41	0.41
0.50	N	-17.52	0.86	-18.92	-16.11	-0.25	2.18	-3.83	3.32	20.64	0.78	19.35	21.92	0.36	0.36	0.36	0.36
0.60	A	-17.38	0.94	-18.92	-15.84	-0.42	2.02	-3.34	3.30	20.57	0.74	19.36	21.78	0.28	0.28	0.28	0.28
0.70	R	-17.34	0.80	-18.65	-16.03	-0.30	2.01	-3.00	3.60	20.53	0.65	19.45	21.60	0.33	0.33	0.33	0.33
0.80	D	-17.20	0.69	-18.34	-16.07	-0.65	1.73	-2.19	3.49	20.45	0.66	19.37	21.52	0.38	0.38	0.38	0.38
0.90	O	-17.21	0.77	-18.47	-15.94	-0.84	1.64	-1.85	3.53	20.48	0.65	19.41	21.54	0.19	0.19	0.19	0.19
1.00	P	-17.35	0.86	-18.76	-15.95	-0.87	1.64	-1.83	3.56	20.56	0.76	19.30	21.81	0.17	0.17	0.17	0.17

LANDMARK - CERVICALE

{ 2 }

TIME	SAMPLE	X - CO-ORDINATE					Y - CO-ORDINATE					Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	-18.82	0.74	-20.04	-17.61	-0.76	2.01	-4.06	2.55	13.23	0.17	12.96	13.51	0.0	0.0	0.0	0.0
0.10	F	-18.88	0.26	-19.30	-18.45	-1.26	2.21	-4.88	2.36	13.26	0.37	12.65	13.87	0.51	0.51	0.51	0.51
0.20	R	-18.69	0.40	-19.35	-18.03	-1.38	2.29	-5.14	2.38	13.23	0.44	12.51	13.94	0.22	0.22	0.22	0.22
0.30	E	-18.46	0.59	-19.43	-17.48	-1.31	2.21	-4.94	2.32	13.15	0.42	12.46	13.84	0.26	0.26	0.26	0.26
0.40	D	-18.57	0.50	-19.39	-17.6	-1.50	2.24	-5.18	2.18	13.20	0.36	12.62	13.79	0.22	0.22	0.22	0.22
0.50	N	-18.58	0.68	-19.69	-17.46	-1.66	2.46	-5.70	2.37	13.34	0.32	12.81	13.86	0.22	0.22	0.22	0.22
0.60	A	-18.46	0.68	-19.58	-17.34	-1.63	2.57	-5.84	2.59	13.54	0.32	13.02	14.06	0.24	0.24	0.24	0.24
0.70	R	-18.49	0.52	-19.35	-17.63	-1.67	2.61	-5.95	2.60	13.76	0.36	13.17	14.35	0.23	0.23	0.23	0.23
0.80	D	-18.64	0.79	-19.94	-17.33	-1.75	2.49	-5.83	2.34	13.87	0.51	13.04	14.71	0.20	0.20	0.20	0.20
0.90	O	-18.69	0.97	-20.28	-17.10	-1.85	2.49	-5.94	2.24	13.96	0.55	13.06	14.85	0.14	0.14	0.14	0.14
1.00	P	-18.57	1.07	-20.32	-16.81	-1.84	2.40	-5.77	2.10	13.97	0.40	13.32	14.62	0.12	0.12	0.12	0.12
0.0	T	-18.57	1.07	-20.32	-16.81	-1.84	2.40	-5.77	2.10	13.97	0.40	13.32	14.62	0.0	0.0	0.0	0.0
0.10	F	-18.62	0.78	-19.90	-17.34	-1.83	2.44	-5.82	2.17	13.85	0.40	13.20	14.51	0.13	0.13	0.13	0.13
0.20	R	-18.51	0.52	-19.37	-17.65	-1.81	2.50	-5.92	2.29	13.65	0.36	13.06	14.24	0.23	0.23	0.23	0.23
0.30	E	-18.38	0.45	-19.11	-17.64	-1.75	2.45	-5.85	2.35	13.48	0.25	13.07	13.89	0.59	0.59	0.59	0.59
0.40	D	-18.50	0.42	-19.19	-17.80	-1.59	2.45	-5.60	2.42	13.42	0.26	13.00	13.85	0.21	0.21	0.21	0.21
0.50	N	-18.62	0.52	-19.47	-17.6	-1.63	2.26	-5.33	2.07	13.42	0.43	12.70	14.13	0.13	0.13	0.13	0.13
0.60	A	-18.52	0.56	-19.44	-17.59	-1.50	2.31	-5.29	2.29	13.55	0.43	12.85	14.24	0.21	0.21	0.21	0.21
0.70	R	-18.50	0.39	-19.14	-17.87	-1.06	2.30	-4.83	2.70	13.41	0.34	12.36	13.97	0.46	0.46	0.46	0.46
0.80	O	-18.67	0.47	-19.45	-17.90	-0.77	2.14	-4.28	2.73	13.12	0.27	12.67	13.56	0.45	0.45	0.45	0.45
0.90	P	-18.78	0.60	-19.76	-17.79	-0.67	2.06	-4.05	2.72	13.10	0.23	12.72	13.47	0.15	0.15	0.15	0.15
1.00	T	-18.82	0.74	-20.04	-17.61	-0.76	2.01	-4.06	2.55	13.23	0.17	12.96	13.51	0.17	0.17	0.17	0.17

LANDMARK - SUPRASTERNALE (3)

TIME	SAMPLE SIZE, N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-16.76	1.02	-16.44	-13.09	0.13	1.54	-2.40	2.66	13.95	0.43	1.35	14.65	0.0	0.0	0.0	0.0
F	0.10	-16.80	1.19	-16.74	-12.85	-0.03	1.57	-2.61	2.55	14.35	0.36	1.45	14.64	0.19	0.19	0.19	0.19
O	0.30	-14.67	1.19	-16.62	-12.73	-0.08	1.58	-2.68	2.51	14.03	0.40	1.38	14.68	0.14	0.33	0.14	0.33
D	0.80	-14.61	0.94	-16.16	-13.07	-0.08	1.60	-2.71	2.55	13.96	0.50	1.31	14.79	0.09	0.42	0.09	0.42
E	0.40	-14.66	0.94	-16.04	-13.28	-0.17	1.72	-2.99	2.65	13.99	0.46	1.23	14.74	0.10	0.52	0.10	0.52
W	0.50	-14.71	0.96	-16.29	-13.13	-0.32	1.60	-2.93	2.30	14.08	0.44	1.35	14.80	0.18	0.70	0.18	0.70
A	0.60	-14.74	0.78	-16.01	-13.47	-0.54	1.45	-2.92	1.83	14.28	0.58	1.33	15.23	0.30	1.01	0.30	1.01
R	0.70	-14.74	0.86	-16.15	-13.33	-0.79	1.54	-3.31	1.73	14.32	0.56	1.41	15.23	0.26	1.26	0.26	1.26
D	0.80	-14.91	1.15	-16.80	-13.03	-1.18	1.69	-3.91	1.60	14.39	0.51	1.35	15.23	0.43	1.69	0.43	1.69
N	0.90	-15.28	1.49	-17.72	-12.84	-1.69	1.93	-4.85	1.47	14.44	0.40	1.38	15.11	0.63	2.32	0.63	2.32
O	1.00	-15.42	1.40	-17.73	-13.12	-1.65	1.72	-4.47	1.17	14.43	0.29	13.96	14.90	0.15	2.47	0.15	2.47
0.0	7	-15.42	1.40	-17.73	-13.12	-1.65	1.72	-4.47	1.17	14.43	0.29	13.96	14.90	0.0	0.0	0.0	0.0
O.10	7	-15.05	1.09	-16.83	-13.27	-1.32	1.45	-3.70	1.06	14.29	0.49	13.48	15.09	0.52	0.52	0.52	0.52
R.20	7	-14.70	1.11	-16.52	-12.88	-1.02	1.58	-3.62	1.57	14.11	0.56	13.19	15.04	0.49	1.01	0.49	1.01
E.40	7	-14.54	0.90	-16.01	-13.07	-0.85	1.72	-3.67	1.97	14.40	0.43	1.29	14.71	0.27	1.27	0.27	1.27
T.50	7	-14.68	0.87	-16.10	-13.25	-0.67	1.71	-3.48	2.13	13.96	0.45	13.22	14.70	0.23	1.50	0.23	1.50
U.60	7	-14.69	0.98	-16.29	-13.09	-0.49	1.65	-3.20	2.22	14.04	0.38	13.41	14.67	0.20	1.70	0.20	1.70
R.70	7	-14.64	0.99	-16.26	-13.02	-0.27	1.48	-2.71	2.16	14.03	0.40	13.36	14.69	0.22	1.92	0.22	1.92
N.80	7	-14.50	0.65	-15.57	-13.43	0.10	1.23	-1.91	2.11	13.95	0.41	13.27	14.63	0.41	2.33	0.41	2.33
O.90	7	-14.62	0.83	-15.98	-13.26	0.26	1.51	-2.07	2.59	13.86	0.46	13.11	14.62	0.22	2.55	0.22	2.55
1.00	7	-14.68	0.90	-16.15	-13.20	0.19	1.51	-2.29	2.68	13.92	0.43	13.21	14.62	0.10	2.65	0.10	2.65
1.00	7	-14.76	1.02	-16.44	-13.09	0.13	1.54	-2.40	2.66	13.95	0.43	13.25	14.65	0.11	2.77	0.11	2.77

LANDMARK - LT ACRION

(5)

TIME	SAMPLE SIZE, N	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	7	-17.23	0.96	-18.80	-15.66	7.99	0.49	7.18	8.79	11.76	0.59	10.79	12.72	0.40	0.0	0.0	0.0
F.10	7	-17.54	0.65	-18.61	-16.47	7.79	0.34	7.22	8.35	11.54	0.43	10.83	12.24	0.43	0.43	0.43	0.43
O.20	7	-17.53	0.52	-18.39	-16.67	7.70	0.47	6.93	8.46	11.48	0.48	10.70	12.27	0.11	0.53	0.11	0.53
D.30	7	-17.18	0.47	-17.95	-16.41	7.71	0.60	6.72	8.70	11.62	0.56	10.70	12.54	0.37	0.90	0.37	0.90
R.40	7	-16.78	0.66	-17.86	-15.70	7.73	0.59	6.76	8.70	11.98	0.61	10.98	12.98	0.54	1.45	0.54	1.45
W.50	7	-16.57	0.93	-18.10	-15.05	7.60	0.56	6.53	12.46	12.46	0.83	11.10	13.82	0.54	1.99	0.54	1.99
A.60	7	-16.32	0.86	-17.73	-14.91	7.50	0.68	6.38	8.61	13.46	1.00	11.49	14.78	0.73	2.71	0.73	2.71
R.70	7	-15.91	1.03	-17.59	-14.22	7.34	0.67	6.24	8.44	14.04	1.46	11.65	16.43	1.01	3.72	1.01	3.72
D.80	7	-15.75	1.04	-17.46	-14.04	7.21	0.83	5.87	8.57	14.37	1.49	11.92	16.82	0.39	4.11	0.39	4.11
O.90	7	-15.81	1.07	-17.56	-14.06	7.01	0.89	5.85	8.48	14.26	1.10	12.45	16.07	0.24	4.34	0.24	4.34
1.00	7	-15.84	1.01	-17.50	-14.17	6.79	0.96	5.23	8.36	14.35	0.95	12.79	15.92	0.24	4.59	0.24	4.59
0.0	7	-15.84	1.01	-17.50	-14.17	6.79	0.96	5.23	8.36	14.35	0.95	12.79	15.92	0.0	0.0	0.0	0.0
O.10	7	-16.12	0.78	-17.40	-14.85	6.92	0.69	5.80	8.05	13.93	0.79	12.53	15.13	0.61	0.61	0.61	0.61
O.20	7	-16.38	0.72	-17.56	-15.19	7.06	0.76	5.82	8.30	13.25	0.69	12.12	14.38	1.26	1.26	1.26	1.26
O.30	7	-16.33	1.04	-18.04	-14.63	6.94	0.89	5.48	8.40	12.77	0.60	11.78	13.76	0.49	1.75	0.49	1.75
E.40	7	-16.95	1.24	-18.98	-14.91	7.34	0.61	6.34	8.34	12.40	0.57	11.47	13.34	0.82	2.57	0.82	2.57
T.50	7	-17.21	1.08	-18.98	-15.43	7.50	0.67	6.40	8.60	12.16	0.52	11.31	13.02	0.39	2.96	0.39	2.96
U.60	7	-17.37	0.97	-18.96	-15.79	7.52	0.62	6.51	8.53	11.93	0.53	11.07	12.80	0.28	3.25	0.28	3.25
R.70	7	-17.45	0.90	-18.93	-15.98	7.66	0.42	6.97	8.34	11.83	0.49	11.03	12.63	0.19	3.43	0.19	3.43
N.80	7	-17.39	0.96	-18.97	-15.81	7.79	0.59	6.82	8.75	11.77	0.53	10.91	12.63	0.16	3.59	0.16	3.59
O.90	7	-17.32	1.09	-19.11	-15.53	7.80	0.58	6.85	8.76	11.79	0.52	10.94	12.63	0.07	3.66	0.07	3.66
1.00	7	-17.23	0.96	-18.80	-15.66	7.99	0.49	7.18	8.79	11.76	0.59	10.79	12.72	0.21	3.87	0.21	3.87

LANDMARK - LT GRIP CENTER (17)

TIME	SAMPLE	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	6	4.97	1.57	2.40	7.54	10.97	0.83	9.61	1.233	5.78	0.63	4.75
0.10	F	6	4.85	0.97	3.25	6.44	8.87	1.06	7.13	1.062	8.57	1.07	6.92
0.20	R	7	4.25	0.91	2.76	5.74	5.83	2.16	2.39	9.38	11.86	1.08	10.42
0.30	D	7	2.69	1.66	-0.04	5.42	1.31	3.47	-6.38	7.00	14.82	1.09	13.62
0.40	W	6	0.61	2.48	-3.46	4.68	-3.21	5.51	-12.24	5.82	16.95	1.18	12.88
0.50	A	2	-0.60	0.84	-1.98	0.77	-4.82	2.07	-8.21	-1.43	16.63	0.23	13.35
0.60	R	0	0.70	0	0.0	0.0	0.0	0.0	-11.53	-11.93	16.47	0.46	17.01
0.70	D	0	0.80	0	0.0	0.0	0.0	0.0	0.0	0.0	15.92	0.0	2.00
0.80	N	0	0.90	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.90	W	0	1.00	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.00	A	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	R	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.10	R	2	-0.20	-0.53	1.59	-3.13	2.07	-6.62	1.71	-9.42	-3.82	17.28	2.38
0.20	R	3	0.30	0.27	2.00	-2.02	3.19	-3.19	2.10	-6.63	0.25	16.44	1.65
0.30	E	6	1.47	1.93	-1.93	-1.69	4.63	-0.25	3.71	-6.35	5.84	1.83	19.14
0.40	R	7	2.58	1.94	-0.61	5.76	3.04	4.71	-4.68	10.77	13.34	1.21	12.85
0.50	U	7	3.57	1.88	0.49	6.64	6.51	5.27	-2.15	15.16	11.32	1.91	10.20
0.60	R	7	4.18	1.85	1.15	7.20	8.30	2.86	3.62	12.99	2.99	6.43	16.22
0.70	N	7	4.60	1.76	1.71	7.49	10.10	1.70	7.32	12.88	8.14	1.86	12.95
0.80	N	7	4.75	1.71	1.95	7.56	11.00	1.35	8.78	13.21	6.56	1.23	5.84
0.90	W	6	4.97	1.57	2.40	7.54	10.97	0.83	9.61	12.33	5.78	0.63	4.75
1.00	A	0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LANDMARK - LT TROCHANTER (19)

TIME	SAMPLE	X - CO-ORDINATE			Y - CO-ORDINATE			Z - CO-ORDINATE					
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT
0.0	T	4	1.47	1.12	0.37	3.30	7.05	1.02	5.37	8.13	2.94	0.47	2.16
0.10	F	4	1.37	1.04	-0.33	3.08	7.07	1.24	5.03	9.10	2.94	0.45	2.21
0.20	R	5	1.57	0.88	0.13	3.01	6.89	1.04	5.18	8.59	2.86	0.41	3.68
0.30	D	6	1.74	0.81	0.40	3.07	6.92	0.72	5.73	8.10	2.82	0.35	3.53
0.40	R	6	1.60	0.89	0.14	3.05	6.84	0.69	5.71	7.97	2.82	0.35	2.25
0.50	W	6	1.56	1.02	-0.12	3.24	6.81	0.83	5.46	8.17	2.77	0.36	2.24
0.60	A	6	1.73	1.01	0.09	3.38	6.89	1.02	5.22	8.57	2.85	0.36	2.18
0.70	R	6	1.86	1.01	0.21	3.51	6.76	0.96	5.18	8.34	2.93	0.38	2.24
0.80	D	6	1.83	1.06	0.09	3.58	6.62	0.82	5.27	7.96	2.97	0.38	2.30
0.90	N	6	1.95	1.14	0.08	3.81	6.68	0.81	5.35	8.01	2.98	0.40	2.34
1.00	W	6	1.93	1.25	-0.12	3.98	6.89	1.10	5.09	8.69	2.94	0.42	2.26
0.0	R	6	1.93	1.25	-0.12	3.98	6.89	1.10	5.09	8.69	2.94	0.42	2.26
0.10	R	6	1.91	0.90	0.43	3.39	6.76	0.87	5.32	8.19	2.84	0.41	2.18
0.20	R	6	1.88	0.98	0.19	3.40	6.72	0.77	5.46	7.97	2.82	0.40	2.16
0.30	R	6	1.99	0.90	0.51	3.47	6.73	0.75	5.51	7.95	2.86	0.42	2.18
0.40	E	6	1.82	1.01	0.16	3.48	6.65	0.69	5.51	7.79	2.86	0.45	2.12
0.50	T	6	1.77	1.02	0.11	3.44	6.72	0.77	5.47	7.98	2.89	0.40	2.23
0.60	U	6	1.80	0.99	0.18	3.41	6.75	0.83	5.39	8.11	2.88	0.43	2.18
0.70	R	5	1.72	0.84	0.34	3.10	7.13	1.07	5.37	8.90	2.99	0.44	2.27
0.80	N	5	1.60	0.90	0.13	3.07	7.11	0.99	5.49	8.74	3.02	0.52	2.17
0.90	4	4	1.47	1.12	-0.37	3.30	7.05	1.02	5.37	8.73	2.94	0.45	2.17
1.00	4	4	1.47	1.12	-0.37	3.30	7.05	1.02	5.37	8.73	2.94	0.47	2.16

LANDMARK - LT KNEE TOP (21)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)			(- - - - Y - CO-ORDINATE - - - -)			(- - - - Z - CO-ORDINATE - - - -)			
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	
0.0	T	17.45	1.41	15.15	19.76	5.38	1.16	3.48	7.28	9.84	2.21
0.10	F	17.48	1.35	15.27	19.69	5.59	1.32	3.42	7.75	9.78	2.48
0.20	R	17.52	1.25	15.48	19.56	5.78	1.34	3.57	7.98	9.73	2.47
0.30	O	17.43	1.24	15.39	19.47	5.88	1.29	3.77	8.00	9.66	2.44
0.40	E	17.36	1.28	15.26	19.46	5.80	1.38	3.53	8.07	9.58	2.44
0.50	M	17.33	1.40	15.03	19.62	5.72	1.50	3.25	8.19	9.58	2.46
0.60	A	17.26	1.36	15.02	19.49	5.74	1.38	3.47	8.01	9.69	2.39
0.70	R	17.32	1.48	14.89	19.75	5.60	1.41	3.29	7.91	9.75	2.42
0.80	D	17.49	1.63	14.83	20.16	5.60	1.45	3.23	7.97	9.74	2.45
0.90	N	17.54	1.74	14.69	20.39	5.63	1.40	3.33	7.93	9.71	2.43
1.00	T	17.35	1.67	14.61	20.09	5.72	1.33	3.54	7.90	9.59	2.41
0.0	U	17.35	1.67	14.61	20.09	5.72	1.33	3.54	7.90	9.59	2.41
0.10	R	17.35	1.33	15.17	19.52	5.70	1.30	3.57	7.84	9.55	2.36
0.20	O	17.36	1.45	14.98	19.73	5.67	1.31	3.52	7.82	9.51	2.42
0.30	E	17.54	1.51	15.01	20.01	5.55	1.22	3.55	7.54	9.52	2.41
0.40	M	17.42	1.45	15.04	19.81	5.57	1.32	3.41	7.41	9.69	2.41
0.50	A	17.43	1.41	15.11	19.75	5.62	1.41	3.30	7.94	9.77	2.46
0.60	U	17.44	1.46	15.04	19.84	5.56	1.51	3.08	8.05	9.73	2.46
0.70	R	17.50	1.38	15.24	19.76	5.53	1.30	3.40	7.66	9.73	2.46
0.80	N	17.50	1.28	15.39	19.61	5.46	1.07	3.70	7.21	9.71	2.32
0.90	D	17.47	1.28	15.37	19.58	5.40	1.03	3.71	7.08	9.74	2.25
1.00	T	17.45	1.41	15.15	19.76	5.38	1.16	3.48	7.28	9.84	2.21

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LANDMARK - LT SHOULDER CENTER (23)

TIME	SAMPLE	(- - - - X - CO-ORDINATE - - - -)			(- - - - Y - CO-ORDINATE - - - -)			(- - - - Z - CO-ORDINATE - - - -)			
		MEAN	SE	5 PCT	MEAN	SE	5 PCT	MEAN	SE	5 PCT	
0.0	T	14.88	0.98	-16.48	13.27	8.27	0.46	7.53	9.02	11.47	0.44
0.10	F	15.00	0.57	-15.93	-14.07	8.02	0.41	7.34	8.69	11.20	0.40
0.20	R	14.80	0.57	-15.74	-15.87	7.93	0.56	7.01	8.86	11.13	0.46
0.30	O	14.36	0.70	-15.51	-13.82	7.97	0.44	7.25	8.70	11.26	0.51
0.40	E	14.01	0.75	-15.24	-12.78	7.81	0.55	6.90	8.72	11.65	0.57
0.50	M	13.57	0.94	-15.12	-12.02	7.70	0.70	6.55	8.85	12.15	0.67
0.60	A	13.07	0.96	-14.67	-11.51	7.27	0.81	5.95	8.59	12.70	0.84
0.70	R	12.74	1.27	-14.82	-10.66	6.91	0.85	5.52	8.31	13.18	1.07
0.80	D	12.67	1.12	-14.51	-10.83	6.54	0.99	4.92	8.16	13.51	1.03
0.90	N	12.68	0.83	-14.05	-11.31	6.14	1.09	4.35	7.92	13.74	0.97
1.00	T	13.00	0.73	-14.21	-11.80	6.23	1.02	4.55	7.90	13.83	0.80
0.0	U	13.00	0.73	-14.21	-11.80	6.23	1.02	4.55	7.90	13.83	0.80
0.10	F	13.26	0.60	-14.24	-12.27	6.38	0.72	5.21	7.56	13.43	0.65
0.20	R	13.46	0.65	-15.52	-12.39	6.78	0.70	5.63	7.94	12.88	0.55
0.30	O	13.61	0.87	-15.04	-12.18	7.20	0.71	6.04	8.35	12.35	0.51
0.40	E	13.97	1.00	-15.61	-12.33	7.48	0.58	6.54	8.43	12.10	0.52
0.50	M	14.37	1.23	-16.38	-12.35	7.66	0.65	6.59	8.73	11.20	0.52
0.60	A	14.77	1.26	-16.83	-12.70	7.74	0.58	6.80	8.73	11.50	0.57
0.70	R	15.09	1.03	-16.79	-13.40	7.95	0.51	7.12	8.78	11.62	0.58
0.80	D	14.98	0.93	-16.50	-13.46	8.26	0.51	7.43	9.09	11.42	0.53
0.90	N	14.90	0.91	-16.39	-13.41	8.29	0.30	7.80	8.77	11.77	0.46
1.00	T	14.88	0.98	-16.48	-13.27	8.27	0.46	7.53	9.02	11.47	0.44

LANDMARK - LT ELBOW CENTER (25)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE				
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT
T	0.0	1.00	-9.49	-6.23	13.10	0.78	11.81	14.38	5.27	1.23	3.25	7.29	0.0	0.0	0.0	0.0
R	0.0	-7.06	0.61	-8.06	-6.07	11.98	0.33	11.44	12.52	1.22	3.53	7.52	1.40	1.40	1.40	1.40
F	0.20	7	-6.15	0.67	-7.25	-5.06	11.06	0.70	9.91	12.21	6.32	1.20	4.35	8.29	1.52	2.92
R	0.30	6	-5.18	0.74	-6.40	-3.97	10.03	1.14	8.17	9.82	1.09	1.04	6.04	9.61	2.06	4.98
R	0.40	7	-4.46	0.80	-5.80	-5.78	8.14	1.60	5.51	10.77	9.76	0.85	6.36	11.16	2.80	7.78
N	0.50	7	-4.06	1.01	-5.72	-2.40	6.13	1.92	2.98	9.29	11.46	1.14	9.60	13.33	2.66	10.44
A	0.60	7	-4.43	0.68	-5.55	-3.32	4.32	2.97	-0.55	9.20	12.27	1.56	9.71	14.84	2.02	12.46
R	0.70	6	-4.69	0.87	-6.11	-3.27	4.06	1.44	1.70	6.42	12.74	0.80	11.42	14.06	0.59	13.05
D	0.80	4	-4.79	0.76	-6.03	-3.54	4.29	0.90	2.82	5.76	12.54	0.50	11.73	13.36	0.32	13.37
N	0.90	4	-4.45	1.25	-6.51	-2.40	3.34	1.17	1.42	5.26	12.73	0.46	11.97	13.49	1.03	14.40
T	1.00	4	-4.56	1.12	-6.39	-2.73	2.98	1.24	0.95	5.01	12.89	0.44	12.18	13.60	0.40	14.80
D	0.0	4	-4.56	1.12	-6.39	-2.73	2.98	1.24	0.95	5.01	12.89	0.44	12.18	13.60	0.0	0.0
O	0.20	6	-3.85	0.84	-5.22	-2.47	5.09	0.94	3.55	6.63	11.55	0.59	10.58	12.52	1.61	2.62
R	0.30	6	-3.99	0.55	-4.90	-3.08	7.40	1.25	5.35	9.45	10.12	0.92	8.62	11.63	2.72	5.34
E	0.40	6	-4.81	1.25	-6.75	-2.75	9.15	1.62	6.50	11.81	8.95	1.30	11.08	12.66	2.6	7.60
T	0.50	7	-5.85	1.58	-8.33	-3.37	11.34	2.10	7.89	14.80	7.37	1.84	4.35	10.40	2.89	10.50
U	0.60	7	-6.49	1.84	-9.51	-3.47	11.81	1.19	9.85	13.77	6.89	1.31	4.75	9.03	0.93	11.42
R	0.70	7	-7.12	1.38	-9.38	-4.87	12.42	0.82	11.07	13.77	6.19	1.21	4.20	8.17	1.13	12.55
N	0.80	7	-7.68	1.29	-9.79	-5.57	12.91	0.81	11.58	14.24	5.52	1.25	3.47	7.58	1.00	13.54
O	0.90	7	-7.89	1.22	-9.89	-5.89	13.03	0.73	11.84	14.22	5.32	1.26	3.26	7.39	0.31	13.86
R	1.00	7	-7.86	1.00	-9.49	-6.23	13.10	0.78	11.81	14.38	5.27	1.23	3.25	7.29	0.09	13.95

LANDMARK - LT WRIST CENTER (27)

TIME	SAMPLE	CO-ORDINATE					CO-ORDINATE					CO-ORDINATE				
		MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT	95 PCT	MEAN	SE	5 PCT
T	0.0	2.11	1.29	-0.00	4.22	12.14	0.73	10.95	13.34	5.72	0.28	5.26	6.19	1.84	2.15	0.00
R	0.20	4	1.48	0.73	0.28	7.64	2.66	3.27	12.01	9.56	1.07	7.81	11.32	5.95	5.95	5.95
O	0.30	5	0.61	0.89	-0.85	2.08	3.77	4.31	-3.29	10.83	12.92	2.13	9.43	16.42	5.20	11.15
R	0.40	5	0.25	1.38	-2.01	2.50	1.12	6.25	-9.13	11.37	14.38	3.73	8.26	20.49	3.04	14.20
N	0.50	3	-0.38	0.34	-0.94	0.18	-1.20	5.26	-9.83	7.42	15.68	2.71	11.24	27.74	1.93	16.93
A	0.60	2	-1.64	0.54	-2.54	-0.75	-1.65	3.87	-8.00	4.69	15.32	0.28	14.57	15.48	1.50	18.43
R	0.70	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	1.74	15.34	2.31	20.74	0.00
D	0.80	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.74
N	0.90	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.74
T	1.00	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.74
O	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R	0.20	1	-2.21	0.0	-2.21	-5.06	0.0	-2.21	-2.21	-1.05	1.52	0.0	14.52	14.52	0.0	0.0
R	0.30	1	-0.14	-0.14	-0.14	-2.21	0.0	-2.21	-2.21	-1.05	1.52	0.0	13.95	13.95	3.57	3.57
E	0.40	2	0.30	1.03	-1.39	4.03	3.99	-2.51	10.57	12.26	1.14	10.40	14.13	6.48	10.04	10.04
T	0.50	4	0.16	1.11	-1.66	1.97	5.47	4.79	-2.39	13.33	11.51	2.20	7.90	15.12	1.63	11.68
U	0.60	5	0.50	1.26	-1.56	2.56	7.11	4.12	0.35	13.87	10.52	2.29	6.77	14.28	1.95	13.62
R	0.70	4	1.01	1.22	-0.99	3.00	9.69	2.83	5.05	14.33	8.50	1.37	6.36	10.84	3.26	16.88
N	0.80	3	0.99	1.36	-1.24	3.23	11.37	1.87	8.30	14.44	7.25	1.16	5.36	9.15	2.15	19.03
O	0.90	4	1.98	1.67	-0.76	4.71	11.70	1.12	9.85	13.54	6.38	0.48	5.59	7.17	1.35	20.39
T	1.00	2.11	1.29	-0.00	4.22	12.14	0.73	10.95	13.34	5.72	0.28	5.26	6.19	1.84	2.15	0.81

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